

Newton College of the Sacred Heart



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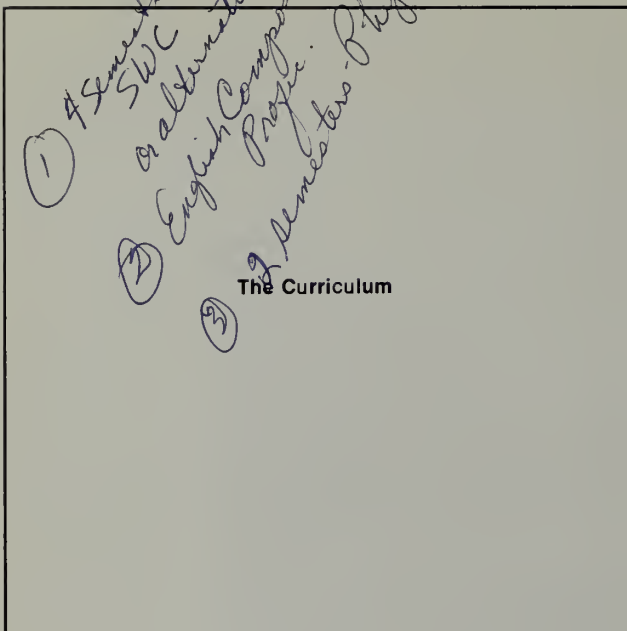
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Newton College of the Sacred Heart





The requirements for the Bachelor of Arts or the Bachelor of Science degree have been so arranged as to leave the fullest freedom of choice to the student while still ensuring a broad acquaintance with the main field of scholarly interest. Work in the major field is intended to lay a firm foundation in one discipline, or, in the case of the Liberal Studies major, to assist the student to achieve a synthesis of her knowledge as she draws it from a number of different disciplines and applies it to her chosen problems.

Along with freedom to choose among different courses and disciplines, the student is also exposed to a variety of educational situations as part of her learning. Instruction occurs not only through lectures, but also field work, tutorials, independent research, cinema, foreign study, and cross-registration at other Boston-area institutions.

Each student is personally responsible for knowing the academic policies and fulfilling the academic requirements that apply to her that are stated in the official catalog of Newton College of the Sacred Heart.

Requirements for the Degree of Bachelor of Arts

Most students take four semesters of The Study of World Cultures as the basis of their liberal arts program. The course provides an opportunity to single out for attention the great problems which have faced Western man. By way of comparison, other cultures are drawn upon to illuminate the manner in which mankind has grappled with its questions—political, social, economic, philosophical, artistic and religious. Members of the Newton College faculty lecture in the course and eminent scholars from other colleges and universities (e.g. Boston College, Brandeis, Harvard, Massachusetts Institute of Technology) also contribute to the variety and richness of the intellectual experience. A list of readings centering largely on the great masterpieces of the world gives depth to the treatment of the material. These readings and the lectures are subjected to special analysis in weekly seminars. The course, which is a "study," not a "survey," is interdisciplinary in nature and selective in its coverage. It seeks to bring about an "illumination of the mind" rather than the mere retention of a mass of facts. Students who have completed the course are usually enthusiastic about its value to them. Yet there will always be students who find a pre-established series of lectures and readings not sufficiently suited to their own needs. Such students may present an alternate program accounting for about the same amount of credit and fulfilling some of the same objectives as are sought in The Study of World Cultures. If their program meets with the approval of the Academic Dean they may proceed with it. Such a plan may be substituted for the whole or for a part of The Study of World Cultures.

Entering students are required to demonstrate during the freshman year proficiency in English Composition. This may be accomplished in three ways:

- by scoring 3 or above in the Advanced Placement Examination
- by passing a Proficiency Examination offered during Orientation at Newton College (students scoring below 575 on the College Board's English Achievement Test are not encouraged to seek exemption from Freshman Composition.)
- by successfully completing two semesters of Freshman Composition.

Students scoring 4 or 5 in the Advanced Placement Examination receive six credits towards graduation. In addition, all freshmen who do not have a medical exemption are required to complete two semesters of Physical Education.

Each student will elect a major field in which she must meet the requirements established by the department. In all other aspects the student is free to choose her own courses.

The Degree of Bachelor of Science

Newton College also offers the Bachelor of Science degree. The requirements are the same as those for the Bachelor of Arts degree with a heavier specialization in the sciences.

The Major

The major fields of study offered at Newton College of the Sacred Heart are the following:

American Studies	Liberal Studies
Art	*Mathematics No!
Art History	Modern Languages
Biology	Philosophy
Chemistry	*Physics - No!
*Classics	Political Science
Comparative Literature	Pre-dental Studies
Economics	Pre-medical Studies
English	Psychology
French	Religion
German	Sociology
History	Spanish

* In conjunction with Boston College

All major fields look to preparation for graduate study but they also offer the student who will not pursue the subject matter at a higher level the possibility of gaining skills and insights and, at least in some measure, the particular qualities of mind which that discipline especially imparts.

Interdisciplinary Majors

Several of the above mentioned major fields of study are interdisciplinary by nature. American Studies affords the student the possibility of concentrating her attention on the political, social and cultural history of the United States as she takes courses dealing with American art, government, philosophy, literature, music, economic structure, as well as history. Classics combines the study of the Latin and Greek languages and literature with that of classical history and art. Comparative Literature integrates the knowledge of more than one literature. The major in Modern Languages allows the student to study two of the five modern tongues taught at Newton College—French, German, Italian, Russian and Spanish. A major in Pre-medical Studies usually involves work in biology, chemistry, physics and mathematics while leaving enough flexibility to allow the student to meet the sometimes differing requirements of several medical schools. The Liberal Studies major allows each selected student to develop her own curriculum under the guidance of one or more faculty members.

Non-Major Fields

There are also two fields of study—education and music—which, though not constituting a major field, offer a sequence of courses amounting to some thirty semester hours and are open to students of all majors.

1. THE EDUCATION PROGRAM

The Education Program meets the certification requirements of Massachusetts, and of most other states because of the reciprocity arrangements among the states of the United States. The purpose of the innovative program is to bring as much and as varied field experience in community education settings as possible within the range of the students. Seminars guided by practitioners in different aspects of elementary and secondary school teaching will assist students to relate their experiences to the body of theory built up by professional educationists. Flexibility in structure and responsiveness in planning each student's curriculum characterize the program which is available to all students to complement their major field. The divisions of science and modern languages have established special programs in collaboration with the faculty of the Education department to prepare students for teaching in those fields.

2. THE MUSIC PROGRAM

The music courses offered at Newton College of the Sacred Heart are intended to form an important part of the liberal arts curriculum and they make use of the remarkable musical facilities of the Boston area.

Academic Policies

Each candidate for the Bachelor of Arts or the Bachelor of Science degree must have one hundred twenty-eight credits while maintaining a passing cumulative grade point average (2.0). The normal period of time in which to earn the degree is four years and a normal program of study consists of sixteen semester hour credits a semester. The student must fulfill the requirements of a major field and must spend her fourth year in academic residence. Either the second or third year may be spent studying abroad.

CHANGE OF SCHEDULE:

Drop—At the beginning of each semester there is a period in which students may withdraw from courses without penalty. After this period it is necessary to secure the approval of both the faculty member teaching the course and the Office of the Academic Dean. A notation of AW (Approved Withdrawal) will appear on the transcript of a student who has dropped a course. No indication of a grade in the dropped course will

Ask about this??

check

128 credits

Abroad

be given. If a student fails to notify the Registrar's office that she has officially withdrawn from any course for which she has officially registered, a grade of *no credit* will be entered on her permanent record for this course.

Add—At the beginning of each semester there is a specified period in which students may add courses to their schedule. After this period, approval must be obtained from the faculty member teaching the course and from the Office of the Academic Dean.

Fee—There is a \$10 fee for dropping or adding a course after the initial period.

CREDIT FOR OTHER ACADEMIC WORK

Thirty-two credits is the maximum to be accepted by Newton College for a year of study abroad or at another college in the United States.

Summer study, either in the United States or abroad, is allowed and sometimes advised. Courses taken in summer school may count as upper-division courses in a major field if the student receives the approval of the department head and the Office of the Academic Dean. Courses not in the student's major field only need the approval of the Office of the Academic Dean. Credit will be transferred from any accredited college or university for a course in which the student has received a grade of C or above subject to the policy stated above. No more than nine credits altogether may be transferred from summer sessions, regardless of how many sessions the student attends.

CROSS-REGISTRATION

Cross-registration is arranged with colleges in the vicinity during the Fall and Spring semesters. Credit will be transferred only with the approval of the Office of the Academic Dean.

GRADING SYSTEM

The grading system is as follows:

Letter Grade	Grade Points	Quality Points
A	4.0	Grade points
B+	3.5	times
B	3.0	the
C	2.0	number of
D	1.0	semester hours
No credit	0	

The semester average is found by dividing the sum of the quality points by the number of semester hours taken. The cumulative average is the average of the semester grade point averages to date. The passing cumulative average and the passing semester average are both 2.0.

Once a final grade is reported to the Office of the Registrar, it cannot be changed without the approval of the Academic Dean. Requests for such changes must be in writing by the faculty member to the Dean, giving full reasons for the requested change.

HONORS:

3.5

3.7

3.9

(Computed on each semester's work taken alone)
Dean's List

Honor List

High Honors

(Computed on the cumulative average)

Cum Laude at Graduation

Magna Cum Laude at Graduation

Summa Cum Laude at Graduation

A portfolio of recommendations and evaluations of each student majoring in a field will be kept in the department and will be used in interpreting the student's record. Due to a change in the grading system, the classes of 1972 and 1973 will have a slightly different honors system.

INCOMPLETE GRADES

The grade "Incomplete" can only be given with the written approval of the instructor and of the Office of the Academic Dean. Such approval must be gained before the beginning of the examination period and will be given only in the cases of illness or real emergency. All take-home examinations and final papers must be given to professors on or before the date specified for the final examination. Approved "Incompletes" will include the date by which the work will be completed.

INDEPENDENT STUDY AND READING COURSES

Many departments of the College offer a program which provides the possibility of students taking one course in a semester of individual study directed by a member of the faculty. Under this program an eligible student may undertake a research project or a program of reading in a particular field. The results of this work normally will be presented in a final report or examination. To be eligible for credit in such a course a student must present in advance to the Office of the

Academic Dean a written description of the course, the number of credits desired, and the name and signature of approval of her instructor. Only after she has received the approval of the Dean's Office may she undertake such a course. Approval is not given for a reading or independent study course in a subject matter handled in regular courses.

PASS/FAIL COURSES

Students in the sophomore, junior and senior classes may take courses on a Pass/Fail basis up to the number of six courses for the three years. This option does not apply to The Study of World Cultures or to courses to be used for upper-division credit in the major field. The decision to take a course Pass/Fail rather than for a letter grade must be made at the time of registration or during the period for adjusting registration given at the beginning of each semester.

READMISSION

Any student who has withdrawn from Newton College of the Sacred Heart in good standing may be readmitted under the conditions that apply to transfer students.

REGISTRATION

Students should register on the registration dates announced in the College calendar. Permission of the Registrar must be secured for registration on dates other than those assigned. No credit will be given for any course for which the student is not duly registered and which is not officially scheduled.

STUDENT COURSE LOAD

Students are ordinarily not allowed to take more than sixteen semester hour credits per semester. Permission to take additional credit must be obtained from the Office of the Academic Dean and a fee of \$70 for each credit above the maximum will be charged. This additional tuition fee does not apply to the class of 1972.

(Note: Students taking The Study of World Cultures are allowed to take seventeen credits without being obligated to pay for the extra credit.)

STUDY ABROAD

Programs which include a year of study abroad are an important part of the curriculum at Newton College of the Sacred Heart. A student with a cumulative average of 3.0 who wishes to take a year abroad should discuss her plans well in advance with the Office of the Academic Dean and with one or more professors in her major field. Approval will be contingent on the possibility of her completing the work successfully.

WITHDRAWALS

A student who wishes to withdraw from the College must make application to the Academic Dean and Registrar for permission to withdraw in good standing. A student who is on academic or disciplinary probation is not considered to be in good standing.

Any student whose cumulative average falls below 2.0 is subject to being asked to withdraw from the College. The College may request withdrawal of any student whose behavior is not in accord with the standard required by the College. All withdrawals must be made officially through the Offices of the Academic Dean, the Dean of Students, the Business Manager and the Registrar.

**Division of
Language, Literature and Communications**

Courses with a double number extend through two semesters. Odd-numbered courses are given in the first semester; even-numbered courses in the second. The number in parentheses after the title of the course indicates the number of semester hours of credit. Courses are offered only if a sufficient number enroll for them. Some courses are offered every year; others in alternate years. Students should consult their department chairmen in developing their programs of study.

Classics Program

Classics are offered in cooperation with the Department of Classics at Boston College. Some courses are offered at Newton College, and a member of the Newton College faculty directs the students' programs. The scholarly and artistic resources of the Boston area are available to students in this field.

The student in Classics may take: four years of Latin and two of Greek, or four of Greek and two of Latin, or the equivalent of such a program.

CL L 101-102 Elementary Latin (3, 3)

CL L 201-202 Virgil (3, 3)
Eclogues, Georgics, and Aeneid.

CL L 301-302 History of Latin Literature (3, 3)
First term: Republic; Second term: Empire.
(Advanced Latin courses are offered as tutorials.)

CL G 101-102 Elementary Greek (3, 3)

CL G 201-202 Intermediate Greek (3, 3)
Review of grammar and introduction to Greek literature.

CL 495 Senior Seminar (3, 3)

CL 497-498 Independent Study (0-3, 0-3)
The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit.

Only one Independent Study course should be carried in any one semester.

COURSES IN TRANSLATION

CL 103-104 (PS 103-104) Dissent: The Growth of Consciousness in Antiquity (3, 3)

The theme of dissent will serve as a framework within which major figures of Greek and Roman Civilization, both literary and historical, will be studied. Readings, discussions, and occasional lectures. No prerequisites.

CL 203-204 (Comp L 203-204) Introduction to Classical Civilization (3, 3)

Study of important Greek and Latin writers in their historical context.

Comparative Literature Program

The student in Comparative Literature is required to take: one course in post-medieval literature if the student's major interests are classical and medieval; one course in classical and/or medieval literature if the student's major interests are Renaissance to Modern.

12 credits in a primary literature
6 credits in a secondary literature
12 credits in Comparative Literature

Eight courses, with a grade of C or better, must count for upper-division credit.

Senior Project (Eng 225 and either Eng 213 or Eng 214 are highly recommended.)

Students must work closely with an advisor in setting up their individual programs.

Comp L 203-204 (CL 203-204) Introduction to Classical Civilization (3, 3)

Study of Greek and Latin writers in their historical context.

Comp L 205-206 Comparative Romance Literature (3, 3)

(Comp L 305-306 for Modern Language majors. See page 10)

The aim of the course is to offer students of language and literature an opportunity to study various literary movements in Italy, France and Spain through representative writers. The course will concentrate on the variations and interpretations of the theme of love (courtly and neoplatonic traditions), death and fate which highlighted the literature of these countries during the Middle Ages and the Renaissance. The course will be conducted in English and bilingual texts will be used.

Comp L 301-302 Romantic Movement in Europe (3, 3)

An inquiry into the origins and development of Romanticism in literature through study of major works by continental and British writers.

Comp L 303-304 Contemporary European Novel (3, 3)

Themes and techniques in representative English and continental novels from Flaubert to the present.

Comp L 499 Senior Project (0, 3)

Note: Comp L 205-206, 301-302 and 303-304 may be counted as credit towards majors in Spanish, French, or German provided that a significant portion of the course is supervised by the respective language department. Under these conditions Comp L 205-206 becomes Comp L 305-306. Comp L 301-302 and 303-304 carry upper division credit for English majors.

English

The student in English is required to complete: Eng 201-202 (may be waived by passing a qualifying examination); Eng 213 or Eng 214 (should be taken sophomore year); Eng 311-

312 and six upper division courses, with a grade of C or better, two of which must be in the period preceding 1800. A Senior Project shall be completed.

A minor in English consists of Eng 201-202 and three upper division courses or four upper division courses with a grade of C or better.

All majors should submit their proposed schedule of courses to the department chairman prior to registration.

Successful completion of Freshman Composition (see general requirements for the degree) is prerequisite for all courses except Eng 201-202 and Eng 203.

All courses are open to non-English majors with the permission of the instructor.

Eng 101-102 Freshman Composition (3, 3)

Reading, discussion and writing centered on various topics selected by the staff. Intensive practice in the strategy and rhetoric of expository writing. Required for most students; see General Requirements for the degree.

Eng 201-202 History of English Literature (3, 3)

A survey of English literature designed to give the student a background for more specialized courses. Both semesters required of English majors: may be waived by passing qualifying examination.

Eng 203 The Image of Woman in Literature (3)

Selected works from classic and modern literature focused on modes of feminine being. Analysis of some myths, fantasies and stereotypes recurrent in the literary portrayal of woman.

Eng 213 Introduction to Drama (3)

Several modern plays compared with plays of earlier periods in order to explore the historical and theatrical relations between them.

Eng 214 Introduction to the Novel (3)

Practice in critical analysis of fiction and in critical writing through the intensive study of a single English or American novel.

Eng 225 Introduction to Literary Theory (3)

Reading and discussion of modern theories of the nature and function of literature. Highly recommended for English majors.

Eng 241-242 Creative Writing (3, 3)

Workshop in fiction, poetry and drama. Writing sample must be submitted. Enrollment limited to 12.

Eng 285-286 Post-World War II British and American Novel (2, 2)

Reading and class discussion of eight novels each semester. First Semester: English. Second Semester: American.

Eng 301 Old English Language and Literature (3)

Introduction to Old English grammar; reading, analysis and discussion of Old English poetry and prose in the original and in translation.

Eng 305-306 Fourteenth Century English Literature (3, 3)

First Semester: readings in *Canterbury Tales* with collateral readings in contemporary related authors. Second Semester: Chaucer, exclusive of *Canterbury Tales*, English mystical writers, cycle plays. The course will attempt to relate literary movements of the fourteenth century with more contemporary movements in English Literature.

Eng 307 Sixteenth Century English Literature (3)

Study of the poetry and prose of the early Renaissance in England. Continental backgrounds.

Eng 308 Spenser (3)

Reading and analysis of the minor poems and the *Faerie Queene*.

Eng 311-312 Shakespeare (3, 3)

Reading of the collected plays, with class discussion of history and criticism. Both semesters required of English majors.

Eng 313 Seventeenth Century English Literature (3)

Study of poetry and prose of the late Renaissance in England.

Eng 314 Milton (3)

Reading, analysis and discussion of Milton's poetry and prose.

Eng 315 Eighteenth Century Novel (3)

A study in the development of the novel as an art form. Authors to be read include DeFoe, Richardson, Fielding, Smollett, Sterne, Goldsmith and Fanny Burney.

Eng 317 Restoration and Early Eighteenth Century Literature (3)

A study of prose, drama and poetry centering around 1660; the focus will be on the new city culture emerging and its influence on the development of Neo-classicism. Authors include: Butler, Bunyan, DeFoe, Pepys, Dryden, Pope and Swift.

Eng 320 The Novel in the Nineteenth Century (3)

Fiction from Jane Austen to Thomas Hardy. Several novels will be studied both as artistic creations and as cultural and social documents.

Eng 321 Romantic Poets (3)

Extensive reading of the major poets (Blake, Wordsworth, Coleridge, Keats, Shelley, Byron) with class discussion of the spirit and literary theory of the school.

Eng 322 Victorian Poetry (3)

Readings in the poetry of Tennyson, Browning and Arnold. These authors followed by a study of the Pre-Raphaelites with attention paid to the relationships these painter-poets made between art and poetry.

Eng 341-342 Modern Novel (3, 3)

The novel from the end of the nineteenth century through the first half of the twentieth. First Semester: English. Second Semester: American. Reading and discussion of eight novels each semester.

Eng 343-344 Modern Drama (3, 3)

The drama from the end of the nineteenth century through the present. First Semester: English and Continental. Second Semester: American. Extensive reading and discussion.

Eng 345-346 Modern Poetry (3, 3)

Close reading of twentieth-century poets, with some research on minor figures. First Semester: English. Second Semester: American.

Eng 349 Satire (3)

Selected satiric works representing various genres and periods from classical to modern times. Discussion of the theory, themes and techniques of satire. Analysis of the problems involved in defining satire from social, philosophical and formalist points of view.

Eng 351-352 Survey of American Literature (3, 3)

Fall Semester: Study of American Literature from the seventeenth to the nineteenth century with emphasis on developing awareness of the Millennium. Spring Semester: Disillusionment in the Millennium and the American Dream become Nightmare (Walt Whitman—LeRoi Jones).

Eng 361 Seminar in Hawthorne, Melville and Whitman (3)

In-depth study of major texts of three most significant writers of the American Romantic Movement. Seminar will deal with creative writing of these authors and with significant critical analyses made by them.

Eng 364 Racial Attitudes in American Literature (3)

A study of the differing attitudes towards race as seen through black and white literature in America. The course will focus on creative fiction in an attempt to understand how attitudes are transformed into symbols, myth, etc.

Eng 365 Harlem Renaissance and Beyond (3)

Study of the creative writings of Afro-American artists during the period from 1910-1945 with reference to their influence on Black Literature today. Enrollment limited to 30.

Eng 366 Contemporary Literature in America (3)

Discussion of drama, novels and poetry considered in the light of the cultural and aesthetic values of contemporary America.

Eng 368 Modern Literature of the American South (3)

Fiction, essays and poetry of writers, such as Katherine Ann Porter, William Faulkner, Thomas Wolfe and James Dickey, considered against the historical and cultural background of the South.

Eng 371 Jane Austen (2)

Reading of the complete works, with class discussion of the novelist as a traditional figure in the development of the form.

Eng 372 Henry James (2)

Reading of six of the major novels, with class discussion of style, structure and influence.

Eng 373 Jacobean Drama (3)

A study of the background and analyses of the plays of the Jacobean Period from Marston to the closing of the theaters. Readings will include works of Webster, Tourneur, Middleton and Ford, as well as playwrights who influenced them.

Eng 374 African Literature in English (3)

An examination of the developing traditions of the literature of the emerging nations of English-speaking Africa. The majority of the novels to be studied have been written within the last fifteen years and deal with such problems as apartheid, the destruction of tribal life, the journey to the Euro-

peanized African city and the conflict between the colonized and the colonizer.

Eng 375 Anglo-Irish (3)

Discussion of drama, poetry and fiction of the Irish literary Renaissance of the first half of the nineteenth century.

Eng 380 Criticism (3)

A seminar on twentieth-century literary critics, mostly American. Literary Theory would be a desirable prerequisite.

Eng 497-498 Independent Study in English (0-3; 0-3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit.

Only one Independent Study course should be carried in any one semester.

Eng 499 Senior Project (0-3)

Note: Comp L 301-302 and 303-304 carry upper-division credit for English majors.

Department of Modern Languages

The minimum requirements for the major are:

Single Language Major:

- 8 credit hours in Elementary courses or qualifying proficiency test;
- 6 credit hours in Intermediate courses or qualifying proficiency test;
- 24 credit hours in Upper Division courses with a grade of C or better;
- Senior Project

Combined Modern Language Major:

A. Major Language

- 8 credit hours in Elementary courses or qualifying proficiency test;
- 6 credit hours in Intermediate courses or qualifying proficiency test;
- 18 credit hours in Upper Division courses with a grade of C or better;
- Senior Project

B. Minor Language

8 credit hours in Elementary courses or qualifying proficiency test;

6 credit hours in Intermediate courses or qualifying proficiency test;

12 credit hours in Upper Division courses with a grade of C or better

Students are advised to visit with the professors of the Department of Modern Languages for more information on qualifying tests, courses offered abroad, senior project and independent studies.

ML 301-302 Introduction to Linguistics (3, 3)

This course can be taken by all Modern Language majors and will provide for special assignment in the individual target language. It will cover the following: phonetics and phonology of language; principles of structural linguistics; a survey of modern grammars; semantics; etymology, essentials of historical linguistics; the principal theories on the psychology and philosophy of language.

ML 497-498 Independent Studies in Modern Languages (0, 3; 0, 3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit.

Only one Independent Study course should be carried in any one semester.

ML 499 Senior Projects (0, 3)

Comp L 301-302 Romantic Movement in Europe (3, 3)

An inquiry into the origins and development of Romanticism in literature through study of major works by continental and British writers.

Comp L 303-304 Contemporary European Novel (3, 3)

Themes and techniques in representative English and continental novels from Flaubert to the present.

Comp L 305-306 Comparative Romance Literature (3, 3)

The aim of this course is to offer students of language and literature an opportunity to study various literary movements

in Italy, France and Spain through representative writers. The course will concentrate on the variations and interpretations of the theme of love (courtly and neoplatonic traditions), death, and fate which highlighted the literature of these countries during the Middle Ages and the Renaissance. The course will be conducted in English.

Note: ML 301-302 carries upper division credit for all Modern Language Majors. Comp L 301-302, 303-304, 305-306 carry upper division credit for Modern Language Majors provided the reading and papers are done in the target language under the supervision of the respective language professor.

FRENCH

Fr 101-102 Elementary French (4, 4)

For the student with little or no previous knowledge of French. Three class sessions will be devoted to the acquisition of reading and writing skills and two laboratory sessions will be devoted to aural-oral practice.

Fr 201a & b-202a & b Intermediate French (3, 3)

This course is intended to develop the four skills of language: understanding, speaking, reading and writing. Three class sessions will be devoted to grammar review, reading and writing. In addition two laboratory sessions of aural-oral practice. (Optional)

Fr 207-208 High Intermediate Conversation and Composition (3, 3)

A review of the fundamentals of the language supplemented by reading of literature and cultural material; practice in the oral use of the language; intensive study of vocabulary structures and idiomatic expressions.

Fr 301-302 Survey of French Literature (3, 3)

An historical and critical study of the important literary movements and the most representative authors of French literature from Middle Ages to the present.

Fr 303-304 French Civilization (3, 3)

A study of French historical and cultural background: its geographical aspects and growth of its arts, sciences and institutions. Prerequisite: a good understanding of spoken French.

Fr 305-306 Advanced Conversation and Stylistics (3, 3)

This course is designed for students who wish to improve their conversational ability: class discussions, intensive train-

ing in the use of grammatical and idiomatic constructions. Advanced stylistics. Introduction to varied types of literary composition in French: narration, description, "analyse littéraire" and "dissertation littéraire". Free composition in each of these literary types will be required from the students. Prerequisite: Fr 203-204.

Fr 307 French Phonetics and Diction (3)

An analytic study of all French speech sounds as well as intonation, rhythm, accent and movement for the expressive reading of prose and poetry. Systematic exercises in pronunciation and intonation.

Fr 308 The French Humanists (3)

A study of the works of Rabelais, Montaigne and the humanist movement in the sixteenth century and of the repercussions of this movement in the seventeenth century.

Fr 309 French Classicism (3)

The elaboration, fixation and realization of the French Classic doctrine as seen through the prose and poetry of the seventeenth century French literature. Study of the most representative works of great poets, fabulists and *mondain* writers.

Fr 310 Corneille, Racine, Molière (3)

The development of the classic theater from the baroque: new theories of the dramatic, the tragic and the comic. Literary analysis of the dramaturgists' masterpieces.

Fr 311 The Age of Enlightenment (3)

An investigation of the changing concept of man and its influence on social and political thought as seen through Montesquieu, Diderot, Voltaire and Rousseau.

Fr 313 Baudelaire, Verlaine, Rimbaud (3)

An insight into the symbolist poetical expression.

Fr 315 The Short Story in France (3)

The major trends of the short story of the nineteenth and twentieth centuries are considered. Intensive reading of works of Mérimée, Daudet, Maupassant, Saint Exupéry, Ionesco, Romain Gary and others will be required.

Fr 316 Twentieth Century French Drama (3)

Discussion of plays from the French Theater from 1920 to the present. Extensive outside reading required.

Fr 318 French Seminar (3)

Subject to be announced. Can be elected as Senior Project.

Comp. L 301-302 Romantic Movement in Europe (3, 3)
See course description on page 10.

Comp. L 303-304 Contemporary European Novel (3, 3)
See course description on page 10.

Comp. L 305-306 Comparative Romance Literature (3, 3)
See course description on page 10.

Fr 499 Senior Project (0-3)

GERMAN

Ger 101-102 Elementary German (4, 4)

Three class sessions will be devoted to essentials of grammar and the acquisition of reading and writing skills. In addition: two laboratory sessions of aural-oral practice.

Ger 201-202 Intermediate German (3, 3)

This course aims at the further development of the four skills of language: understanding, speaking, reading and writing. Three class sessions will be devoted to reading and discussing works of literary merit and cultural interest and to a complete grammar review. In addition two laboratory sessions of aural-oral practice. (Optional). Course conducted primarily in German.

Ger 301-302 Survey of German Literature (3, 3)

Lectures in German; reading and discussion of typical works of each period. Fall semester: German literature from the medieval period to Goethe. Spring semester: German literature from Romanticism to the present day.

Ger 303 304 German Civilization (3, 3)

An intensive study through German texts of the cultural and historical background of the German speaking peoples. Fall semester: From the beginning to the Baroque Period. Spring semester: From the Age of Enlightenment to the present. Conducted in German.

Ger 305-306 German Literature in the Eighteenth Century (3, 3)

Lectures in German of the nature and background of the eighteenth century. Reading and discussion of representative works with emphasis on Lessing, Goethe and Schiller.

Ger 307-308 Contemporary German Literature (3, 3)

Literary trends in Germany and Austria from 1885 to the present. Extensive reading. Conducted in German.

Ger 309-310 Advanced German Conversation and Composition (3, 3)

Intensive training in the use of correct grammatical and idiomatic constructions. Advanced stylistics. Oral and written reports on selected topics will be required.

Ger 312 German Seminar (3)

Subject to be announced. Can be elected as Senior Project.

Comp L 301-302 Romantic Movement in Europe (3, 3)

See course description on page 10.

Comp L 303-304 Contemporary European Novel (3, 3)

See course description on page 10.

Ger 499 Senior Project (0-3)

ITALIAN

It 101-102 Elementary Italian (4, 4)

Introduction to Italian language through basic conversation patterns and essentials of grammar. Weekly language laboratory session and special classroom exercises aimed at the acquisition of a reading knowledge.

It 201-202 Intermediate Italian (3, 3)

Continuation of Elementary Italian, with stress on oral expression and composition. Basic grammatical structures will be analyzed during the reading of Italian prose especially chosen for its cultural and literary values. Conducted exclusively in Italian.

It 251-252 Advanced Italian (3, 3)

While the emphasis of the course will be on the development of language skills through intensive conversations and compositions, the student will be introduced to various aspects of Italian culture and history. Conducted in Italian.

It 301-302 Italian Literature I (3, 3)

Following a series of lectures on literary precepts and theories, the Italian literary language and some principles of aesthetics, the first semester the course will follow the developments of lyric poetry and related literary movements. Emphasis will be placed on the works of Dante, Petrarch,

Lorenzo de' Medici, Poliziano and Pulci. The development of Italian prose and its various manifestations will be studied during the second semester. Emphasis will be placed on Boccaccio, Machiavelli and selected writers of the Renaissance. Conducted in Italian.

Comp L 305-306 Comparative Romance Literature (3, 3)

See course description on page 10.

RUSSIAN

Rus 101-102 Elementary Russian (4, 4)

Simplified Russian grammar supplemented by reading from Graded Readers. Intensive study of vocabulary and phonetics. Practice in speaking the language. Three class sessions will be devoted to reading and writing skills, as well as elementary conversation and one hour of language laboratory work is required.

Rus 201-202 Intermediate Russian (3, 3)

Advanced grammar. Reading of selected prose. Conversation.

Rus 301-302 Survey of Russian Literature (3, 3)

Biographies of the great Russian writers of the nineteenth and twentieth centuries and the reading of their major works in Russian.

Rus 303-304 Russian Civilization (3, 3)

The purpose of this course is to introduce the language student to Russian civilization: history, art, music, as well as the economy and the geography of the Soviet Union. Conducted in Russian.

SPANISH

Sp 101-102 Elementary Spanish (4, 4)

An introductory course using the oral-aural approach. This course is intended to develop the four skills of language: speaking, understanding, reading and writing.

Sp 201-202 Intermediate Spanish (3, 3)

Continuation of Elementary Spanish at a more advanced level. Practice in composition and conversation. Readings of easy works and discussions of everyday topics.

Sp 301-302 Survey of Spanish Literature (3, 3)

An historical and critical study of the most important literary movements and the most representative authors of Spanish literature from the Middle Ages to the twentieth century. Required of Modern Language majors if Spanish is elected as one of their languages.

Sp 303-304 Spanish and Latin-American Civilization (3, 3)

A study of the cultural contributions of Spain to Western Civilization and a general survey of the most characteristic movements of Iberoamerica.

Sp 305 Advanced Spanish Conversation (3)

Intensive training in correct expression in both written and spoken language. Oral and written reports on topics of Spanish cultural and current interest.

Sp 351 Spanish Drama of the Golden Age (3)

An intensive study of Golden Age Drama, with special attention to the works of Lope de Vega, Tirso de Molina and Calderón de la Barca.

Sp 353 Nineteenth Century Spanish Novel (3)

Post Romantic narrative fiction as Spain's method of exploring her past and present. Among the authors studied are Valera, Pereda, Pardo Bázan and Galdos.

Sp 355 The Generation of 1898 (3)

Novels, essays, poetry and plays by the most important writers of the turn of the century in Spain. A study of the ideological and literary contributions of Unamuno, Azorin, Baroja, Valle Inclán, Machado and others.

Sp 356 Contemporary Spanish Novel (3)

A study of the literary trends and the works of significant writers of Post Civil War Spain. Works of Cela, Laforet, Delibes, Gironella and others will be discussed.

Sp 358 Contemporary Spanish Theatre (3)

A study of the most important works of Casona, Buero Vallejo, Sastre, Paso and others, as a reflection of some of the social problems of Contemporary Spain.

Sp 499 Senior Project (0-3)

Comp L 305-306 Comparative Romance Literature (3, 3)

See course description on page 10.

**Division of
Humanities and Fine Arts**

Art

ART HISTORY

REQUIREMENTS FOR MAJORS:

Students majoring in the History of Art must take AS 101-102, Art 101-102; 10 upper division courses in the art department, of which at least 8 must be in Art History, including Art 401, completed with a grade of C or better and a satisfactory senior project. Students are recommended to have a sufficient language facility to be able to do serious research in German, French or Italian.

REQUIREMENTS FOR MINORS:

The Art Department also offers a minor in Art History to those students who complete a minimum of 15 credits in the department, distributed as follows: two semesters of general Survey of Art History, two semesters of upper division Art History courses, one semester of a studio course (selection guided by advisor).

Art 101 History of Art (3)

Prehistoric through Medieval; survey with readings in art history.

Art 102 History of Art (3)

Renaissance through Modern; survey with readings in art history.

Art 301 Prehistoric Art (2)

A study of art and culture from the Paleolithic through the Neolithic.

Art 301W Workshop for Prehistoric Art (1)

Problems in aesthetics and techniques related to the study of prehistoric art. Required for those taking Art 301.

Art 310 Japanese Art and Architecture (3)

Survey of Japanese art including minor decorative arts. Not offered 1971-72.

Art 311 Islamic Art (3)

A study of the art and culture of Islam.

Art 312 Pre-Columbian Art in Mexico and Central America (3)

A study of these cultures and their art.

Art 313 Art of Africa and Oceania (3)

Art south of the Sahara and the islands of the South Pacific. Figures, masks, buildings and craftsmanship.

Art 316 Greek Art (2)

A study of the development of Greek art primarily within the context of the development of cult centers.

Art 316W Workshop for Greek Art (1)

Recommended for those taking Art 316.

Art 321 Medieval Architecture (3)

The development of building types and the evolution of style from late antiquity through the High Gothic.

Art 322 Medieval Painting, Sculpture and Decorative Art (3)

The development of style and iconography from the early Middle Ages through the High Gothic.

Art 331-332 Italian Renaissance Art (3, 3)

Italian art of the fourteenth, fifteenth and sixteenth centuries.

Art 336 Renaissance in Northern Europe (3)

Painting in Northern Europe from Late Gothic illuminating the work of Pieter Bruegel the Elder.

Art 341 Roman Baroque (3)

A study of the development of baroque forms in art and architecture in and around Rome from the mid-sixteenth through the mid-seventeenth centuries.

Art 342 Baroque Outside of Italy (3)

A study of the assimilation of Roman baroque into the national traditions of Germany, Flanders, Holland, Spain and France.

Art 355 Art from Impressionism through 1920 (3)

Art 357 Art Between the Wars, 1920-1940 (3)

Art 358 Contemporary Art (3)

Art from 1940 to the present.

Art 363-364 History of American Movies (3, 3)

A survey of the film with emphasis on its cultural and sociological significance. Includes an introduction to techniques necessary for film analysis.

Art 365-366 Masculine/Feminine Images in American Movies in the 30's and 40's (3, 3)

Intensive examination of selected stars from the period, including Garbo, Gable, Harlow and Bogart; study of their personalities and of the technical means by which these personalities were created and conveyed (script, lighting, composition and camera work). Meaning of these personalities to the audience, changes in the male and female images of the late 30's. Each movie will be screened twice and analyzed twice; student papers alternate with lectures.

Prerequisite: Art 363-364 or general knowledge of movie history and technique, with permission of the instructor. The first semester will be taught at Boston College, the second at Newton College.

Art 377 American Art and Architecture (3)

Survey of American Art from Colonial to present times.

Art 379 American Art Prior to the Civil War (3)

Students not majoring in Art or American Studies need the permission of the instructor. Not offered 1971-72.

Art 380 American Art from 1865 through the Present (3)

Students not majoring in Art or American Studies need the

permission of the instructor. Not offered 1971-72.

Art 381 Departmental Studies in the Boston Museum of Fine Arts (3)

Specialized studies in the various departments of the BMFA. Tours of the museum preceded by lectures. To be taught alternate years; open to all art majors and others with permission.

Art 382 Departmental Studies in the Boston Museum of Fine Arts (3)

Studies in the Far Eastern Department. Limited to 10 students, with permission of the instructor.

Art 383-384 Philosophy of Art (3, 3)

An introduction to theories of art and beauty in both eastern and western culture. An analysis of the creative act as it relates to aesthetics.

Art 387-388 Art as Symbol (2, 2)

A study of the nature and structure of symbol as developed in the psychology of Jung, followed by an analysis of the arts of various cultures and periods as attempts to give symbolic definition to man's relationship with the cosmos. Not offered 1971-72.

Art 387-388W Workshop for Art as Symbol (1, 1)

Mostly student-initiated projects. Required for those taking Art 387 or 388.

Art 401 Seminar in Methods and Criticism (3)

An analysis of different approaches to art (the formal, the iconographical, and the political) and a discussion of the bases for historical and modern criticism. Required of art history majors; open to juniors and seniors in the department and to others who have completed at least one semester of Art History beyond the Survey course. Offered alternate years.

Art 497-498 Independent Studies in the History of Art (0-3, 0-3)

The student who wishes to take one or two semesters of independent study will present a detailed description of the course requirements as agreed to by the instructor giving the course and as approved by a representative of the Dean's office. The student must successfully carry through the project as outlined. If these conditions are satisfied, the Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

Art 499 Senior Project (3)

Required of all art history majors.

STUDIO ART

REQUIREMENTS FOR MAJORS:

Students majoring in Art must take Art 101-102, AS 101-102; 10 upper division courses (exclusive of senior project) in the Art Department of which at least six must be in studio, with a grade of C or better. Seniors should have prepared a portfolio of their best work and completed a satisfactory senior project. All Studio Art majors present their work at the end of each semester to a Review Board of faculty members and senior art majors for comments, criticism and direction.

REQUIREMENTS FOR MINORS:

The Art Department also offers a minor in Studio Art to those students who complete a minimum of 15 credits in the department with a grade of C or better distributed as follows: two semesters of Introductory Studio, three semesters of studio work, of which at least two should be upper division, or five semesters of studio work, of which at least three should be in the same area of specialization. Studio minors will participate in regular Review Boards, and their complete portfolio will be reviewed by the Art Faculty during their last semester at Newton; approval of their portfolio is essential to the granting of the minor. All courses are subject to limited enrollment.

AS 101-102 Introductory Studio (3, 3)

A series of interrelated courses designed to give the student acquaintance with various skills, techniques, media and viewpoints.

AS 101a Drawing

Freehand drawing: a direct interpretation of visual reality, natural as well as made, employing various media; investigation of experimental techniques and approaches to drawing.

AS 101b Design Research, Two-Dimensional

Studio course to train student to visualize and represent the illusion of form, action, rhythm, structure and space, using line, tone, texture, as well as images, employing traditional media as well as experimentation with new materials.

AS 102a Design Research, Three-Dimensional

Workshop course to train the student to visualize in space and to develop a sensitivity to form, structure and balance, using ordinary materials in the forming process, coordinating mind, eye and hand with reference to the order of nature.

AS 102b Painting

Basic painting. Exploration of materials and techniques through problems in observation, texture, color, analysis of composition, figure and landscape. Oil or acrylic.

AS 103-104 Art Fundamentals (3, 3)

A seminar-workshop to introduce the student with little art background to a variety of art experiences.

AS 110 Media I (3)

Design elements of texture, color, space, time and sequence as inherent in the projected image. A .35 mm. camera recommended, though not essential.

AS 181 Color (3)

Experience with and inquiry into the construction and design of color as a force. A studio course using colored paper, collage, found and prepared objects; a final project in any medium putting a chosen aspect of this knowledge to work. Required for or to be taken simultaneously with AS 303-304.

AS 207-208 Figure Drawing I (2, 2)

Studies from the model. Watercolor, ink, conte, charcoal, pencil and mixed media; composition and anatomy.

AS 213 Basic Oil, Acrylic and Gouache Technique (2)

Modeling and defining form in an opaque medium.

AS 214 Picasso to Abstraction (2)

A study of the approach of Picasso to painting as a guide to the formation of an abstract style.

AS 217-218 Developmental Painting I (3, 3)

A studio course designed to allow the student to program a series of works that are relevant to the individual. The intention of this study is to develop the capacity for arriving at independent solutions. Oils, acrylic, watercolor or mixed media. It is helpful, though not required, to have taken AS 102b.

AS 221 Drawing II (3)

Structure in drawing by non-representational means. Practice in control and spontaneity through techniques of mental construction and psychic improvisation.

AS 245-246 Environmental Design I (3, 3)

Studio workshop course to train the student to see man as center and a measure of his environment; acquisition of techniques to represent and communicate by means of projection drawing, such as orthographic, isometric and perspective drawing, as well as the use of models. An introduction to the

design process as it relates to programming; requires criteria to solve specific environmental theoretical problems.

AS 251-252 Ceramics—Hand Building (3, 3)

Hand building techniques in clay. Coil and slab projects. Class limited, with permission of instructor.

AS 253-254 Ceramics—Wheel Throwing (3, 3)

Work on the potter's wheel. Prerequisite AS 251-252 or permission of the instructor.

AS 255-256 Weaving I (3, 3)

An introduction to weaving as a medium of contemporary art. Exploration of weaving techniques used in the creation of accessories and wall hangings. Experimentation with pattern drafts, tapestry weaves, and different types of materials. With permission of the instructor.

AS 261-262 Printmaking I (3, 3)

Relief and stencil printing. A course in printing from raised surfaces and stencil templates. Use of wood, masonite and plastic; inking, printing and registration methods.

AS 263-264 Etching (3, 3)

Intaglio methods of printing with emphasis on etching. Study of the different effects produced by a variety of inks, papers, grounds, etc. Prerequisite: Drawing, or permission of the instructor.

AS 271 Basic Photography I (3)

Aesthetic and technical principles of photography. The course will include practical fundamentals of using cameras and light meters and darkroom experience in developing, printing and enlarging pictures. Required: .35 mm. or 2¼ camera, lens shade and some darkroom materials.

AS 272 Basic Film Making I (3)

Exploration of the expressive possibilities of film as an art medium through practical experiments in Super 8 mm. filming. Students will learn the basic techniques of film making.

AS 275-276 Design Photography (3, 3)

A course for artists and designers whose major interest in photography is self-expression. More concerned with the aspects of selection, subjective expression and inventiveness than with the use of the camera as a recording apparatus. Because weather conditions and natural light cannot be controlled, darkroom projects will run concurrently with camera projects. Required of students: an adjustable camera, .35 mm., 2¼ or 4 x 5 and some darkroom materials.

AS 278 Photojournalism (Alternate for Film Making) (3)

An analysis of the relationship between pictures and text leading to the production of picture stories and photo-illustrated texts. Most photography will be done outside the classroom. News and magazine photography oriented. Required: .35 mm. or 2¼ camera, lens shade, light meter and some darkroom materials.

AS 303 Serigraphy I (3)

The techniques of screen construction, stencil making and multiple color printing.

Prerequisite: AS 181 or taken simultaneously.

AS 304 Serigraphy II (3)

Utilization of technique. Problems concerning the possibilities of fabric, fine art and commercial application.

Prerequisite: AS 303 or permission of the instructor.

AS 307-308 Figure Drawing II (2, 2)

Work in dry brush with emphasis on the modeling of the musculature and the forms of the human body.

Prerequisite: minimum of one semester of AS 207-208.

AS 317-318 Developmental Painting II (3, 3)

Continuation of AS 217-218 on a more advanced level.

AS 343-344 Advanced Design in Space (3, 3)

Workshop course as a continuation of design research, two-dimensional and three-dimensional, on a more advanced level, with special emphasis to scale development from sketch to environmental realization at larger or human scale.

Course open to 10 juniors and seniors.

AS 345-346 Environmental Design II (3, 3)

A continuation of workshop course Environmental Design I, applying knowledge in the solving of problems and to introduce students to various aspects of architecture and planning as tools for forming man's physical environment.

AS 351-352 Ceramics (3, 3)

Advanced work in hand building or wheel throwing.

With permission of instructor.

AS 355-356 Weaving II (3, 3)

Emphasis on creation of original designs in tapestry weaves, multiple harness weaves and three-dimensional weaving.

Prerequisite: Weaving I and permission of the instructor.

AS 361-362 Printmaking II (3, 3)

Advanced problems in printmaking. Choice of relief or intaglio methods.

AS 371-372 Photography II (3, 3)

More advanced problems in photography, including color.

AS 375-376 Vision (3, 3)

A course to sharpen the student's ability to innovate, be open to and recognize discovery. Dialogue with other departments and instructors will be sought.

Class limited to 15 students.

AS 381-382 Space Problems—Tutorial (3, 3)

Space problems solved, imaginative as well as specific; exhibition, theatrical and monumental, using models and actual space where possible.

Limited to two or three seniors.

AS 385-386 Advanced Tutorial I (3, 3)

Intensive work in a specific area under the direction of a mentor. Students taking advanced tutorial should inform the Chairman in writing. Graded on a Pass/Fail basis. To be taught each year; open to seniors majoring in Art.

AS 485-486 Advanced Tutorial II (3, 3)

Intensive work in a specific area under the direction of a mentor. No more than one area may be pursued simultaneously. The work, though it may relate to the Senior Project, may not be submitted as a part of it. Students taking advanced tutorial should inform the Chairman in writing.

Graded on a Pass/Fail basis.

AS 499 Senior Project (3)

Required of all Studio Art majors.

History

REQUIREMENTS FOR MAJORS:

Students majoring in history must fulfill the following requirements with a grade of C or better: 36 credit hours which must include His 101 or 102 and a senior project to be completed in an area of the student's choice. Students planning to attend graduate school are reminded of the advisability of choosing their courses with this in mind. This should involve an indication of some special field of interest, as well as appropriate allied courses which will aid in the further study of history.

The department recommends a seminar course in history for all of its students. All majors should submit their proposed schedule of courses to the department chairman prior to the semester registration.

REQUIREMENTS FOR MINORS:

The History Department also offers a minor in history to those students who complete 15 credit hours with a grade of C or better.

His 101-102 Problems in European History (3, 3)

Analyzes some of the forces, movements and issues which have played a large part in the formation of European civilization. The first semester will cover the period from the Greeks to the early modern period; the second semester will cover the modern and contemporary periods. The approach to the course will be topical and analytical rather than narrative. One class meeting a week will consist of discussion. The student will be introduced through the study of problems to the various approaches to the study of history.

Open to freshmen and sophomores. One semester required of history majors.

His 104 World History since 1500 (3)

Analyzes the essential characteristics and experiences of the major world regions and those forces or movements, particularly western expansion, that had a world-wide impact. A global perspective of the world since 1500, rather than a regional or national view, is the aim of this course. Offered 1972-73.

His 203-204 Political and Economic History of the United States (3, 3)

Describes and analyzes the evolution of American society with emphasis on those cultural forces which have helped to promote social change.

Students will be required to read independently in order to develop a command of historical fact and theory as well as an appreciation of the development of American civilization.

His 205-206 Social and Cultural History of the United States (3, 3)

Analyzes the evolution of American society from colonial times to the present. What Americans thought about themselves and their problems and their response to new ideas of science and social criticism, the development of mass culture and other social and cultural foundations of modern America. The first semester deals with America to 1900 and the second semester considers the twentieth century.

His 207-208 History of East Asia (3, 3)

An introduction to the history and civilization of China and Japan, with emphasis on cultural development and social organization. First semester covers from earliest times to about 1800. Second semester focuses on a comparative study of "modernization" in China and Japan.

His 332-333 Origins and Rise of Europe (3, 3)

An inquiry into the socio-cultural and ideologic foundations and operative factors in the formation of the European world from Constantine the Great to 1500.

His 341 Emergence of the Nation States (3)

A study of the development of the European national states from 1500 through the age of Louis XIV. The political effect of the Reformation, the nature and effects of the new economy, the scientific thought of the seventeenth century and the expansions and secularization of the European world.

His 342 The Age of Rationalism (3)

A study of the internal development of the major European States in the eighteenth century; the international balance of power; the rise of the great colonial empires; the Enlightenment as a European phenomenon.

His 343 Revolutionary Europe (3)

This course will deal with the political, social and intellectual facets of the European revolutionary movements from 1789 to 1848. Although the French Revolution of 1789 will be studied in detail, great emphasis will also be placed on its general impact on European civilization through the Restoration period especially in Italy and Germany.

His 344 Europe in the Age of Realpolitik (3)

The development of the effects of nationalism, socialism, and industrialism on Europe from 1848 to 1914. The great unifications, the rise of Marxian socialism, the new imperialism and the impact of the shift from romanticism to realism in politics will be considered.

His 345 Europe Between the Wars (3)

A study of the major political, intellectual and socio-economic trends in Europe from 1914 to 1939; the impact of war, the rise of the totalitarian right, the impact on Europe of Soviet Russia.

His 346 Contemporary Europe (3)

Major developments in European history since 1939 will be analyzed and discussed in their historical context; the problems occasioned by World War II, the Cold War, the decline of empire, variations in Marxist societies will be among the topics studied.

His 353 History of Modern France (3)

Study of basic problems in French history since 1848. The Second Empire, the Third and Fourth Republics, DeGaulle's France will be considered against their social, economic and cultural background and the changing role of France in Europe.

His 361-362 Communist Chinese History and Society (3, 3)

An introduction to Chinese Communist society, covering the period from the rise of the Communist Party in China to the present. First semester will give special attention to the causes of the Chinese revolution, the rise of the Communist Party, and the evolution of Maoist revolutionary strategy. Second semester will focus on the recent "cultural revolution" and on following current Chinese affairs.

His 363 Twentieth Century Russian History (3)

Russian history from 1905 until the death of Stalin, with special attention given to the Russian revolution, the Comintern and Soviet Far Eastern policy.

His 364 Southeast Asian History (3)

A survey of the history and civilization of several Southeast Asian countries, with a case study to investigate the effects of colonialism on a traditional society.

His 370 Colonial America, 1607-1763 (3)

An intensive historical examination of the origins, nature, problems and relevancy of the political, economic, social and cultural systems of early America. This is a reading and discussion course with maximum student participation.

His 371 America in the Middle Period, 1800-1850 (3)

A study of American political, social, economic and intellectual developments from the "Jeffersonian Revolution" of 1800 through the influences of "Jacksonian Democracy".

His 372 The American Revolution 1763-1789 (3)

An intensive examination of the causes, consequences, motives and meaning of the American Revolution. Reviewed also will be the changing historical interpretation and recent reappraisals of the Revolutionary Generation. The Confederation period will be examined in relation to the themes of change and continuity.

This is a reading and discussion course with maximum student participation.

His 373 The Civil War and Reconstruction, 1850-1877 (3)

A study of the causes, conduct and aftermath of the Civil War. The course will consider political, economic, social, intellectual, military and diplomatic phenomena.

His 375-376 American Foreign Policy (3, 3)

An historical study of the formulation and implementation of a basic United States foreign policy from 1776 to 1900 and the subsequent new departures occasioned by the many radically different challenges of the twentieth century. Emphasis will be placed on conflicting interpretations.

His 377-378 Twentieth Century America (3, 3)

An historical examination of the growth of the American nation from a semirural to a highly urbanized society and the American political response to this challenge of change. Important topics include: origins, nature and significance of the Progressive Movement; the ethnic and economic orientated politics of the twenties; Depression; New Deal; rise of the new mass-production-consumption economy; the second reconstruction and welfare statism from Truman to Johnson.

Appropriate reading assignments comprise an integral part of this course.

His 379 American Constitutional Development (3)

An historical study of the origins of the American constitutional system (1607-1789); the nature of the federal union and who had the power to interpret the constitution (1789-1865) and the problems and adjustments of the constitutional system arising from the challenges of a modern, industrialized urban society (1865-Present).

His 381-382 The Black Man in American History (3, 3)

Fall Semester: 1501 to 1877, from Negro slavery in the West Indies to the end of the Reconstruction period in the United States. Spring Semester: 1877 to the present time from the beginnings of hard core segregation to the continuing struggles for full acceptance and equality.

His 401-402 Seminar in European History (3, 3)

Analysis of the writings of major Western historians of the nineteenth and twentieth centuries in the light of contemporary historiographical theory.

His 497-498 Independent Study in History (0-3, 0-3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

His 499 Senior Project (3)

Required of all majors.

Music

Mus 101 Basic Theory of Music (4)

An introduction to the study of music history.

Not offered 1971-72.

Mus 105-106 Learn to Listen (2, 2)

A course designed to enable students to become informed music listeners by acquainting them with great examples of the literature of all periods, placing special emphasis on musical forms.

Mus 207 Music in Film (3)

The importance of music to movies is studied in a course that views, discusses and analyses selected films from 1929 to 1971.

Mus 208 Opera (3)

The study of opera as a living art.

Required opera attendance will be equivalent to the third hour of class.

Mus 253-254 Beethoven's Instrumental Works (3, 3)

Beethoven's instrumental works; the influence of his life and times on his development, a review of musical forms as they are encountered in these works. The student should register for the full course and will be required to take oral as well as written examinations at the end of each term.

Prerequisite: Mus 101 or the equivalent, with permission of the instructor.

Philosophy

REQUIREMENTS FOR MAJORS:

For a major in philosophy, the requirements are as follows: a minimum grade of C in 12 courses and/or seminars in the Department of Philosophy, including at least one course or seminar in each of the following areas:

- (1) Logic (2) History of Philosophy and Modern Philosophy
(3) Ethics (4) Problems of Philosophy: issue-oriented courses and seminars (5) Problems of Philosophy: man-oriented courses and seminars*.

*The course numbers indicate the level of the courses as well as the area in which they fall:

The first digit indicates the following levels: 1—Elementary; 2 & 3—Intermediate; 4—Advanced.

The second digit indicates the following areas: 1—Logic; 2—History of Philosophy and Modern Philosophy; 3—Ethics; 4—Problems of Philosophy: issue-oriented courses and seminars; 5—Problems of Philosophy: man-oriented courses and seminars.

The third digit indicates the semester a course is taught: 1—first semester; 2—second semester.

An acceptable senior project.

Students should consult the department at the beginning of each semester in preparing their programs. Those planning to pursue graduate study in philosophy are strongly advised to take the following courses: Phil 317; Phil 321; Phil 323; Phil 325; Phil 326; Phil 343; Phil 344. They are also advised to acquire the reading knowledge of a foreign language (preferably French or German) and to take the Graduate Record Examination at the end of their Junior year or at the beginning of their Senior year.

REQUIREMENTS FOR MINORS:

For a minor in philosophy the requirements are as follows: a minimum grade of C in 6 courses and/or seminars in the Department of Philosophy, including at least one course or seminar in 3 of the 5 areas required for majors.

Phil 111-112 Logical Techniques of Thought and Argument (3, 3)

The aim is to provide a nontechnical introduction to the principles and methods of sound reasoning. Topics include the uses and functions of language, symbolism and sign-

using behavior, the nature of language, meaning and communication, special types of discourse. Detailed practice in interpretation and inference. Deductive and inductive methods in argumentation, critical analysis and practical decision. The logic of propositions and classes; truth-functional analysis; quantification; proofs of validity and soundness of arguments. Inductive procedures; analogical arguments; probability inferences. Phil 111, first semester, is offered in consecutive years. Phil 112, second semester, is offered in alternate years.

Phil 117-118 Logic (3)

A study of the operations of the human mind—abstraction, judgment and reasoning—with emphasis on the practical application of the law of logic. Exercises will be assigned which should aid the student in her search for clarity of thought and expression.

This course will be offered twice each year. Phil 118 is the equivalent of 117 but is offered in the spring semester.

Phil 121 History of Philosophy I (3)

Pre-Socrates to Locke.

Phil 122 History of Philosophy II (3)

Locke to Present.

An introduction to some of the basic ideas of the main philosophers in the history of Western thought. Stress will be placed on problems pertinent to the contemporary world. The class will read the same primary sources and groups within the class will read different secondary sources, then compare them in relation to the primary sources.

Phil 142 Philosophical Method: Its Nature and Applications (3)

A study of the main characteristics, problems and the continuing challenges of philosophical inquiry. The integrative and critical values in the application of the philosophical method: (a) for the assessment of the intellectual products of our civilization in a variety of areas (including morality, politics, religion, social and natural sciences, etc.), and (b) for the formulation of one's personal concepts, beliefs, and views. Through readings in diverse fields, an attempt will be made to exhibit what may be called the rationale in appraising the problems of a broad relevance to human concerns. The course will be conducted as a seminar.

Phil 155 Philosophy of Man (3)

The study of man as creative and dynamic. His place and role in the evolutionary process. The features of his response to the shaping of the world around him. The different kinds of knowledge as ways of relating to reality. The problematic of interpersonal relations. The search for personal authenticity. The role of commitment, responsibility and community in this search. The tension between the individual and the institutional. The following thinkers will be read and discussed in working out the above problems: Teilhard de Chardin, Johann, Bergson, Descartes, Einstein, Kant, Fletcher, Sartre, Maslow, Marcel, Berdyaev and others. At the end of the course each student will be asked to formulate, in a synthesis, her own philosophy of man.

Phil 225-226 History of Modern Philosophy (3,3)

Systematic study and critical analysis of the main works of the following philosophers: Descartes, Spinoza, Locke, Berkeley, Hume, Leibniz, Kant, Hegel, and Schopenhauer.

Fall semester: Ethics and Value Theory.

Spring semester: Theory of Knowledge.

The second semester may be taken without the first.

Phil 232 Values and Contemporary Man (3)

Contemporary man's search for values in a rapidly changing world where traditional values are collapsing will be investigated mainly through the media of literature, film and art.

Phil 234 Philosophy of the Community (3)

A study of the communities of friendship, marriage, family, state, nation and church, and of their relations to one another.

Phil 236 Utopias and Communes in America (3)

An inquiry into the ideals of the utopian communities of 18th and 19th Century America: the Shakers, Owen's New Harmony, Fruitland, Brook Farm and the Oneida Perfectionists, as well as those of today's varied communal experiments.

Phil 237 Contemporary Problems in Social Philosophy (3)

An examination of the philosophical and moral doctrines involved in such social conceptions as utility, the common good, natural law and natural rights, justice and equality, tolerance and liberty.

Phil 238 Problems in Ethics and the Philosophy of Mind (3)

A study of the current ideas concerning man's moral conduct in the light of his intellectual commitments, as interpreted by

some major philosophers and moralists—the British Utilitarians, Butler, Kant, Moore, Stevenson, Ross, Baier, Perry, Hare, and others.

Phil 241 Philosophy of Religion (3)

A phenomenological approach to the meaning of religion, with stress placed on some of the epistemological problems of religion, and a study of some of the answers given by psychology and mysticism. An attempt will be made to discover the relation of metaphysics to religion.

Phil 251 Philosophy of Creativity (3)

An inquiry into the possibility of a new philosophy of man based on his essential creativity. Extensive study of the ideas of thinkers who discuss man's new responsibility as creator of the world around him and his creative responsibility to his fellow men. The ideas of Berdyaev, Maslow, Kierkegaard, Erich Fromm, Sartre, Alan Watts and Gabriel Marcel on this subject will be investigated.

Phil 256 Contemporary Problems Seminar (3)

This seminar will be given by professors from the Art and the Philosophy departments. Its purpose is to enable the students and the professors involved in it to discuss together in depth and in breadth challenging contemporary problems common to the two disciplines, such as the person and the community, responsibility and creativity. The seminar will focus on one central problem each year. Selected problem for 1971-72: Methods of self-knowledge. Many people today have not been able to satisfactorily identify with traditional Western answers to the question "Who am I?" This course proposes to examine various means being used today to find answers to this question. Emphasis will be placed on experiencing the various methods and discussion will be based mostly on reflection on these experiences.

Phil 317 Symbolic Logic (3)

Introduction to the current methods of formal logic and logical analysis. The theory of truth functions and propositional calculus; normal schemata and Boolean expansions; duality; proofs of consistency and validity. Properties, development, and interpretation of axiomatic theories (logistic systems). Calculus of functions: uniform quantification and methods of natural deduction; general theory of quantification. Introduction of the theories of identity, classes, and relations. Theory of descriptions. Logical and semantical paradoxes. Applications in the analysis of argumentative prose.

This course presupposes no specialized training in logic and mathematics.

Phil 321 Plato and Aristotle (3)

A study of some of the major works of these philosophers in the light of contemporary problems.

Phil 322 Augustine—Thomas (3)

A study of some of the major works of these philosophers in the light of contemporary problems.

Phil 323 The French Spiritualistic School (3)

The reaction of French philosophers to the positivism of Condillac, Comte and Spencer. The spiritualism of Pascal, Maine de Biran and Lachelier. The spiritual positivism of Ravaisson, Boutroux, Bergson and Teilhard de Chardin. Bergson's theory of creative evolution and Teilhard's evolutionary world view from cosmogenesis to christogenesis will be emphasized.

Phil 325 American Philosophy (3)

Jonathan Edwards to Sidney Hook. General historical trends, together with an analysis of the principal texts of William James, Josiah Royce, John Dewey and Alfred North Whitehead.

Phil 326 Existentialism (3)

The well known European Existentialists: Kierkegaard, Berdyaev, Heidegger, Gabriel Marcel, Camus, Sartre and Simone de Beauvoir. Existentialism in the United States. Selected readings from the novels, the plays and the philosophical essays of these writers.

Phil 327-328 History and Philosophy of Science (3, 3)

An examination of man's recent attempts, in their cultural contexts, to understand the physical environment. Historical and critical study of the development of modern scientific methods and fundamental concepts in natural and behavioral sciences. Topics include: (a) the development of the concepts of matter, force, energy, and dynamics; structure and function; emergence, evolution, and natural selection; behaviorism and purposivism; (b) types of explanation; verification; causality; theory making and concept formation; reduction; measurement; the nature of explanations of human actions.

This course presupposes no specialized background in science and is intended both for those who do not expect to take further work in science or related subjects and for those who may wish to continue in the natural or the behavioral sciences.

The second semester may be taken without the first with the consent of the instructor.

Phil 342 Philosophical Presuppositions of Contemporary America (3)

Besides contemporary philosophical works, plays, movies, novels, editorials, popular songs and publications of different political movements will be used in an attempt to bring to the surface some of the basic philosophical positions at work in present day thought. Majors from different disciplines will be especially helpful in this undertaking.

Phil 343-344 Philosophy of Language (3, 3)

A detailed study of the nature and uses of language in order to develop a viable philosophical method of analysis. Symbolism, meaning and use, sign-using behavior, and special types of discourse. The use of the philosophical method based on a linguistic conception of philosophy to achieve results on such subjects as mind, behavior, morals, understanding, certainty, and belief. The decisive and dominant influence of this philosophical method on the current Anglo-American philosophy. Readings in the major works of Wittgenstein, Wisdom, Anscombe, Geach, Malcolm, Ryle, Austin, and others.

Phil 345 Far Eastern Philosophies (3)

An introduction to the study of Far Eastern philosophies: the Analects of Confucius; the Tao-Te-Ching; the Upanishads; the Bhagavad Gita and critical works concerning them. Directed study of the following contemporary thinkers at the student's choice: Daisetz; Suzuki (Zen Buddhism); Mahatma Gandhi; Rabindranath Tagore.

Phil 346 Existentialism and Buddhism (3)

A comparison of the ideas of Gabriel Marcel and of Martin Heidegger to Buddhism and to Zen Buddhism. Intensive study of both Western and Eastern sources.

Phil 347-348 Seminar in Philosophy in Literature (3, 3)

An investigation of philosophical insights concerning the problems, the conduct, and the condition of human life, as they appear in a selection of literary and philosophical works. Members of the seminar will select the works to be discussed and the reading list will be open to revision during the course of the seminar. The emphasis will be on discussion. The seminar will require a strong intellectual motivation of its members and their close interaction within the group. An attempt will be made to conduct this seminar interdepartmentally whenever possible.

Fall semester: *Topic*: Issues in a New Generation, including revolution, violence, war, civil disobedience, drugs, technology

and religious freedom. Selection of readings in: Marcuse, Paz, Guevara, Westermarck, Wellman, Bentham, Mill, Machiavelli, Hitler, Marx.

Spring semester: *Topic*: Ethical Perspectives and Moral Dilemmas in the Problem of Freedom. Selection of readings in: Sophocles, Kalidasa, Dante, Goethe, Dostoevsky, Camus, Kierkegaard, Sartre, Kafka, Gandhi, Niebuhr, Bergson, Hemingway, Faulkner, Joyce.

Two two-hour discussions weekly. The second semester may be taken without the first.

Phil 410 Mathematical Logic (3)

Completeness proof of quantification theory. Existence and singular inference; identity; descriptions. Number axioms and informal proofs. Classes and axiomatic set theory. Relations and functions. Variant theories of classes and ultimate classes. Mathematical induction. Analysis of foundations of mathematics: formalism, intuitionism, logicism. Paradoxes: Russell's; Grelling; Skolem; Burali-Forti. Theory of Types and possible solutions of paradoxes. Modal logic and necessity. Introduction to many-valued logics. Applications and theory of logic.

Prerequisite: Phil 317 or the consent of the instructor.

Phil 441 Philosophy Seminar: Minds, Machines, and Purposive Behavior (3)

A philosophical study of the comparative behavior of minds and machines with special reference to the concepts of purpose and intentional action. Determinism and freedom; goal-directed behavior, purposivism, and behaviorism.

Phil 497-498 Independent Study in Philosophy (0-3, 0-3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

Phil 499 Senior Project (3)

Required of all Philosophy majors.

**Division of
Science and Mathematics**

Division of Science and Mathematics

BIOLOGY

REQUIREMENTS FOR MAJORS

Bio 101-102, Bio 301-302, Bio 303, Bio 305, Bio 404, Bio 409-410. At least one elective course must be taken from any of the other biology offerings. Required related courses for majors: Chem 101-102, Chem 205-206, and Physics 111-112. It is strongly recommended that those students planning to go to medical or graduate school in science take a year of calculus (Math 151-152). Majors are required to complete a minimum of 23 credits with a grade of C or better beyond the Bio 101-102 level.

REQUIREMENTS FOR MINORS

Bio 101-102 Cell to Organism (4, 4)

12 credits beyond the introductory level

Bio 301-302 Comparative Vertebrate Morphogenesis (4, 4)

Bio 303 General Genetics

Bio 404 Biochemistry and Cellular Physiology

PRE-MEDICAL STUDIES

A pre-medical student should make out her program in her Freshman year with the advice of the Director of Science, and in accordance with the entrance requirements of the medical schools to which she intends to apply.

	<i>First Semester</i>	<i>Second Semester</i>
Freshman Year	Bio 101 Chem 101 Math 111	Bio 102 Chem 102 Math 112
Sophomore Year	Bio 301 Chem 205 Physics 111	Bio 302 Chem 206 Physics 112
Junior Year	Bio 303 Bio 305	Bio 404 Bio (elective*)
Senior Year	Bio 409	Bio 410

* Any one of the following may be selected as an elective: Bio 304, Bio 306, Bio 307, Bio 406, Bio 408.

Majors are to consult with the Director of Science for assignment to a permanent major adviser.

Bio 101-102 Cell to Organism (4, 4)

Study of the patterns of organization through which molecules, organelles, cells and tissues give living organisms their basic properties. *Fall semester*: cell biology integrated with the elements of biochemistry and cell physiology. *Spring semester*: principles of developmental biology, whereby the information from genetic material is translated into form and function during the individual life spans of plants and animals. Three lectures and one three-hour laboratory.

Bio 301-302 Comparative Vertebrate Morphogenesis (4, 4)

A comparative morphological and embryological study of the vertebrates. Evolutionary changes in vertebrate structure from the protochordates through representative members of all the vertebrate classes will be studied. Emphasis will be placed on understanding the underlying principles behind these morphogenetic events. Two lectures and two three-hour laboratories.

Bio 303 General Genetics (3)

The principles of genetics and their relation to fundamental biological problems. Discussion of the molecular basis of heredity, the nature, transmission and action of higher plants, animals, and microorganisms. Two lectures and one two-hour laboratory.

Bio 304 Topics in Advanced Genetics (3)

This course is designed for students who have taken Bio 303 and who wish to deepen their knowledge in some of the problems of genetic research today. Each student will pursue an independent study of a topic of her choice. She will then submit a complete bibliography of the subject and present a paper for discussion by the whole class.

Bio 305 Histology (4)

The microscopic anatomy of tissues as related to function. This will include classical methods of study as well as modern research techniques. Three lectures and one two-hour laboratory.

Bio 306 Advanced Histological Technique (4)

A laboratory oriented course. Includes techniques used in investigation of problems in cell biology, photomicrography, tissue culture, phase contrast microscopy, cryobiology, histochemical enzyme studies, exfoliative cytology and autoradiography.

Bio 307 Experimental Biology (4)

A laboratory oriented course concerned with selected basic methods, techniques, and instruments used in experimental biology.

Bio 404 Biochemistry and Cellular Physiology (4)

A biochemical and biophysical approach to the cell as the biological common denominator. Includes cell physiology of both plants and animals.

Bio 406 Vertebrate Physiology (3)

A systematic approach to functions of organs and organ systems in the vertebrates with special emphasis on regulatory mechanism and reproductive physiology.

Bio 408 Endocrinology (3)

A review of the general and comparative aspects of endocrinology.

Bio 409-410 Senior Research (6)

All students will present a senior paper on their research supervised by the staff. Seniors should consult with a faculty member concerning their senior thesis and submit an outline of the thesis to the department for approval by the third Thursday in October. The outline should give the objective and how that objective will be accomplished. The outline should be signed by the faculty advisor. The department will review the outline and recommend appropriate action.

Bio 497-498 Independent Study (0-3, 0-3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office. The student must carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

Bio 499 Senior Project (0-3, 0-3)

In place of a comprehensive examination and a senior essay, there will be henceforth a single requirement—the senior project. The student is expected to initiate her own project which may take the form of an extended study of some one topic or participation and seminar—consult with division chairman for fuller detail.

CHEMISTRY**REQUIREMENTS FOR MAJORS**

	<i>First Semester</i>	<i>Second Semester</i>
Freshman Year	Math 151 Physics 101 Chem 201 Chem 203	Math 152 Physics 102 Chem 202 Chem 204
Sophomore Year	Math 201 or 011 Chem 301	Chem 302
Junior Year	Chem 303 Chem 305	Chem 304 Chem 306
Senior Year	Chem 401	Chem 402

The senior year class work represents the senior comprehensive synthesis. It offers flexibility through choice of topics.

A grade of C or better is required for courses 301 and above.

REQUIREMENTS FOR MINORS**Chem 101-102 Principles of Modern Chemistry** (4, 4)

12 credits beyond the introductory level:

Required: Chem 205: Introduction to Organic Chemistry (4)

Chem 206: Organic Compounds of Biological Interest (4)

The other 4 credits may be acquired in any of the following ways:

Chem 301: Physical Methods of Analysis (4)

Chem 303: Thermodynamics (4)

Chem 401: Senior seminar (3) in combination with one semester of independent studies with number of credits depending on type of work performed.

Chem 201-202 Introductory Inorganic and Physical Chemistry (3, 3)

Study of the fundamental laws of chemistry, atomic and molecular structure, theory of bonding, application to inorganic compounds. Introduction to thermodynamics. Thermochemistry. 3 lectures.

Chem 203 Qualitative Analysis of Inorganic Compounds (1)

Analysis of anions and cations, their separation and identification. One three-hour laboratory.

Chem 204 Quantitative Volumetric and Gravimetric Analysis (1)

Acid-base titrations, precipitation and oxidation-reduction titrations. Complex reactions. One three-hour laboratory.

Chem 301 Physical Methods of Analysis (4)

A study of physical methods of separation used by the chemist, including various methods of extraction, chromatography, potentiometric and spectrometric determinations, both qualitative and quantitative, elucidation of structure.

Chem 302 Introduction to Quantum and Radiochemistry (3)

Introduction to the fundamentals of quantum chemistry. A study of the properties and reactions of the nucleus. The measurement of radiation and the effects of radiation on both inorganic and organic substances. Three lectures. Prerequisite: Phy 102 and Chem 202.

Chem 303 Thermodynamics (4)

A study of the laws of thermodynamics and their applications in relation to energy changes and predicability of reactions. Four hour lectures, including problem sessions.

Chem 304 Kinetics and Electrochemistry (4)

A study of reaction rate, equilibrium in ideal and non-ideal systems. Principles of electrochemistry, their relationship to energy and thermodynamics. Four lectures including problem sessions requiring calculus.

Chem 305-306 Physical Organic Chemistry (6-6)

A study of reactions mechanisms based on thermodynamical and thermochemical processes. Elucidation of organic molecular structures. Introduction to molecular orbital calculations. Four lectures and one four-hour laboratory. Multistep synthesis, physical methods of determination of molecular structure.

Corequisites: Chem 303-304

Chem 401 Senior Seminar (3)

Weekly sessions designed to acquaint the student with the scientific literature and to teach critical reading, experiment planning, as well as scientific writing and oral presentation of papers followed by discussion.

Chem 497-498 Independent Studies in Chemistry (0-3, 0-3)

The student will present a typewritten detailed description of a project the choice of which will meet the instructor's approval. Only successfully completed project will carry academic credit.

Prerequisite: instructor's consent; Dean's Office approval.

Chem 499 Senior Project (3)

The following courses are open to non-chemistry majors:

Chem 101-102 Principles of Modern Chemistry (4, 4)

A study of the fundamentals of chemistry including theory of solutions, colloids, acids, bases, buffers and pH, chemical equilibrium with introduction to kinetics. The laboratory will include applications of these principles, as well as a study of the fundamental tools of the chemist. Three lectures, one three-hour laboratory.

Chem 205-206 Introductory Organic Chemistry (4, 4)

A study of the various functional groups, their reactions. Applications of the study of reactions to polyfunctional compounds. The laboratory will include simple syntheses as well as some analytical work for the determination of the presence or absence of the various functional groups. Three lectures, one three-hour laboratory.

MATHEMATICS**REQUIREMENTS FOR MAJORS**

Math 202, 301, 303 plus 5 semester courses at the upper division level (courses numbered above 300).

Students who intend to major in Mathematics are advised to study one of the following languages: Russian, German, or French.

REQUIREMENTS FOR MINORS

Three semester courses at the upper division level or its equivalent, subject to the approval of the department.

Students interested in Computer Science are advised to consider Math 015-016, Math 113-114, Math 307-308, and Math 309.

Any course listed below is open to any qualified student.

Math 011-012 Old Paths and New Ways (2, 2)

A one semester course designed to give students interested in teaching elementary mathematics an insight into some basic mathematical concepts and some innovative ways of communicating them. Open to students with limited mathematical backgrounds. A student may take Math 011 or Math 012 or both. (Math 012 does not depend on Math 011.)

Math 013-014 Seminar and Practicum in the Teaching of Mathematics (2, 2)

The seminar provides an opportunity for students interested in teaching Mathematics to explore the mathematical background of ideas to be presented in the classroom, to work out innovative mini-courses, and/or to evaluate their observations or teaching the logical development of mathematical ideas. Requirement: Permission of the instructor. A student may take Math 013 or Math 014 or both. (Math 014 does not depend on Math 013.)

Math 015-016 Dialogues About Mathematics (0-4, 0-4)

A seminar that offers an opportunity for interested students and faculty members within and without the department to share in a learning experience in some area of Mathematics or in some area related to Mathematics. The defining of a problem, the determination of the goals and the methodology and procedures to be followed, and the evaluation of the experience will be determined by the participants in conjunction with the coordinator. Each participant who contracts to contribute to the learning experience will be granted the credit (up to three credits) agreed upon, usually on a pass/fail basis, if the contract is satisfactorily fulfilled. Possible contracts might involve individualized learning about computers or an area in which a student wishes to acquire knowledge or group discussions about a topic such as the relationship between pure and applied mathematics. Open to Freshmen. Suggested for students interested in studying computer science or any area of mathematics in a non-structured situation. A student may take Math 015 or Math 016 or both. (Math 016 does not depend on Math 015.)

Math 101-102 Introduction to Analysis (5, 5)

A rigorous study of the concepts of function, limit, derivative and integral.

Math 111-112 Calculus (4, 4)

A course in calculus which parallels Math 101-102. Problems and applications in the Natural Sciences are used to introduce the concepts. Recommended to students majoring in Sciences. Freshmen who are considering a major in Mathematics can elect Math 111-112 as an alternate to Math 101-102.

Math 113-114 Mathematics for Behavioral Sciences (3, 3)

A study of mathematical topics for further work in Behavioral Sciences. This will include probability, statistics, introduction to and use of calculating machines and computers.

Math 115-116 Mathematical Experiences (3, 3)

The objectives of the course are an understanding of what mathematics is and an appreciation of mathematics as a vital, ongoing creation. Ideas—not content—will be stressed. Open-ended problems will provide opportunities for the discovery of mathematical relationships and the development of an interest in proving conjectures and theorems. Suggested for Freshmen and for non-mathematics majors with an interest in Mathematics. A student may take Math 115 or Math 116 or both. (Math 116 does not depend on Math 115.)

Math 117-118 Mathematical Experiences for Teachers (3, 3)

Students taking Math 117 meet for two hours with students taking Math 115. (Math 118 is similarly related to Math 116.) During the third hour the emphasis will be on the communication, in a teaching situation of the ideas developed during the course. A student may take Math 117 or Math 118 or both. (Math 118 does not depend on Math 117.)

Math 120 Elementary Linear Algebra (3)

An introductory level presentation of the fundamental concepts of linear algebra—vector spaces, matrices, linear transformations of the plane. Some applications will be considered. Suggested for Freshmen and for non-mathematics majors interested in the social or natural sciences or in teaching.

Math 121 Survey of Calculus (3)

Topics in calculus with applications in Economics.

Math 122 Elementary Statistics (3)

Introduction to Statistics with applications and examples in Economics and Sociology.

Math 201 Intermediate Analysis (5)

A study of elementary differential equations, sequences, series, improper integrals, and sequences and series of functions.

Math 202 Linear Algebra (5)

A rigorous study of vector spaces, linear transformations, matrices, systems of linear equations, operators on Euclidean spaces and applications to linear differential equations.

Math 301 Advanced Calculus (3)

Elementary point-set topology and functions of several variables, treated in detail.

Math 302 Vector Valued Functions (3)

A study of vector valued functions of several variables.

Math 303 Algebra I (3)

Elementary theory of Groups, Rings, and Fields.

Math 304 Algebra II (3)

The content of this course may vary from year to year and will depend on the interests of the students and of the instructor. The following options, among others, will be available:

Selected topics in the Theory of Finite Groups
Introduction to the Theory of Rings and Homology
Introduction to the Theory of Fields and Galois Theory

Math 305 Mathematical Probability (3)

A study of Probability which assumes some knowledge of Calculus.

Math 306 Mathematical Statistics (3)

A study of Statistics which assumes some knowledge of Calculus and Probability.

Math 307 Numerical Analysis I (3)

A study of linear and non-linear equations, interpolation and more general methods of approximation.

Math 308 Numerical Analysis II (3)

A study of the methods of Numerical Analysis which lend themselves to analysis and solution of problems by computers.

Math 309 Computer Science (3)

Introduction to the principles of Computer Science. Automated procedures, logic and language aspects will be discussed. Some programming languages will be studied and used. Recommended to students who have had one year of Mathematics.

Math 401 Real Analysis (3)

Lebesgue measure, Lebesgue integral and its relation to the Riemann integral.

Math 402 Introduction to Topology (3)

Topological spaces and their properties.

Math 403-404 Functions of the Complex Variable (3, 3)

A study of Cauchy-Riemann equations, contour integration, Laurent series, calculus of residues, conformal mapping, Dirichlet problem.

Math 497-498 Independent Study in Mathematics (0-3, 0-3)

Independent programs of reading and research in an area of the student's choice. Open only to Juniors and Seniors. The following options, among others, will be available:

Introduction to Number Theory

Elementary Geometry from an Advance Standpoint

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office. The student must carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

Math 499 Senior Project (0-3)**PHYSICS****REQUIREMENTS FOR MAJORS:**

Phy 301, Phy 302, Phy 303, Phy 304, Chem 201, Chem 202, Chem 203, Chem 204, Math 101-102 or Math 111-112 and Math 201-202.

Phy 101-102 Basic Concepts in Physics and Chemistry (4, 4)

Selected topics in classical and quantum physics. The selected topics in classical physics include force, energy, motion, wave motion, heat, electricity, magnetism, and light. The selected topics in quantum physics include quanta, the atom, and the nucleus. Three lectures and one two-hour laboratory period per week. This course may be counted towards filling the science requirement.

Two of the following four courses will be given the second semester; which courses will depend on the interest of the students. In general the laboratory will be given at Boston College through cross registration.

Phy 301 Introduction to Atomic and Nuclear Physics (4)

Atomic and nuclear structure, nuclear transformations, fission, fusion, elementary particles. Three lectures and one two-hour laboratory period per week.

Prerequisite: Phy 100 or Phy 111, 112 or the equivalent.

Prerequisite or corequisite: Math 111-112 or 115-116.

Phy 302 Optics (4)

Geometrical and physical optics theory and use of optical instruments. Three lectures and one two-hour laboratory period per week.

Prerequisite: Phy 100 or Phy 111, 112 or the equivalent.

Prerequisite or corequisite: Math 111-112 or 115-116.

Phy 303 Mechanics (4)

Newtonian mechanics, rotational motion, wave motion. Three lectures and one two-hour laboratory period per week.

Prerequisite: Phy 100 or Phy 111, 112 or the equivalent.

Prerequisite or corequisite: Math 111-112 or 115-116.

Phy 304 Electricity (4)

Fundamental laws of electric and magnetic fields: electric circuits; principles of electronics: electrical measuring instruments. Three lectures and one two-hour laboratory period per week.

Prerequisite: Phy 100 or 111, 112 or the equivalent.

Prerequisite or corequisite: Math 111-112 or 115-116.

SCIENCE EDUCATION

The infusion into the public schools of novel and improved educational materials and patterns of learning generated by the curriculum reform programs of the past decade has depended in large measure on the retraining of teachers in service. It has become increasingly clear that to insure large-scale effective use of these new patterns and to minimize degradation in the manner of their employment, it is necessary to launch programs of corresponding new patterns of learning in the colleges which prepare future teachers. The need for such renovation of pre-service teacher education has now become a major endeavor at Newton College of the Sacred Heart.

The major objective at Newton College will be to develop a science base of elementary and secondary education courses that will reflect the philosophy and style of learning that characterizes the products of the science course improvement programs.

SCIENCE EDUCATION PROGRAMS

Science Education at Newton College will consist of the following three major areas:

1. *Training*—Preservice, in-service and summer training programs will be developed. The basic courses will deal with current methodology.
2. *Resource and In-Service Training Center*—A collection of educational materials will be available from most of the major curriculum development groups. Instruction and practice opportunity in the use of all materials will be provided.
3. *Developmental Center*—For the on-going development of graded self-contained units in science. New educational packages will be tested in local schools.

SCIENCE EDUCATION COURSES

Sci Ed 401 Methods of Teaching the Biological, Chemical and Physical Sciences (4)

Sci Ed 402 Methods of Teaching the Biological, Chemical, and Physical Sciences (4)

Sci Ed 406 Practice Teaching in the Sciences (4)

SCIENCE NON-MAJOR COURSES

Science 101-102 Scientific Basis of Social Issues (4, 4)
Development of a core of basic biological concepts and a study of their application to current social problems. Lecture, discussion, laboratory, and field work in local communities. Course taught on a pass/fail basis.

Science 103-104 Scientific Concepts for the Responsible Citizen (2, 2)

A course for students desirous of studying how the ideas of science affect their daily lives and relate to the future of man. Particular emphasis will be placed on a study of reproductive development, heredity, and ecology. Two one-hour lectures, demonstrations, and discussion a week. Course taught on a pass/fail basis. Regular attendance required because of the nature of the course.

Science 105 Science and Public Policy (2)

The role of scientist as advisors to the government. The role of the government in support of science. Two lectures, discussion. Open to anyone interested.

Science 106 Science and the Law (2)

The protection of scientific discoveries, their patenting, how patents are issued, their exploitation. The role of science in law enforcement. Open to anyone interested.

Division of Social Science & Religion

ECONOMICS

REQUIREMENTS FOR MAJORS

A major in economics is required to present eight (8) upper division courses, i.e., of the 300 level and above, in addition to the introductory courses Ec 101-102 and Ec 207. A senior project is usually presented in the senior year. The eight (8) upper division courses must include the following: Ec 301-302, Ec 305, Ec 401 or 402, and Ec 405.

REQUIREMENTS FOR MINORS

A minor in economics must present Ec 101-102 and Ec 301 or 302 plus any three (3) department electives for a minimum of fifteen (15) hours.

Ec 101-102 Principles of Economics (3, 3)

Introduction to the basic concepts of economics and the fundamental institutions of economic society.

Ec 207 Introduction to Mathematical Economics (3)

A course designed to provide knowledge of the mathematical techniques used in modern economics. The topics will include integration and differentiation with applications in the theories of the firm and consumer behavior, macro-economic models.

Ec 301 Micro-Economic Analysis (3)
Micro-Economics; price theory and distribution analysis.
Prerequisite: Ec 101-102.

Ec 302 Macro-Economic Analysis (3)
Classical Keynesian and Post-Keynesian aggregative analysis.
Prerequisite: Ec 101-102.

Ec 306 Statistics (3)
Statistical methods as used in economics. Collection and presentation of data index numbers, time series analysis, measurements of central tendency and dispersion. The normal curve and statistical inference. Measurements of simple linear correlation.

Ec 354 Accounting Principles (3)
Organization and analysis of financial transactions, construction and interpretation of financial statements.

Ec 366 Money and Banking (3)
A study of the history of banking. Analysis of deposit creation and central banking with application to objectives and effectiveness of modern monetary policy.

Ec 370 Labor Economics and Problems (3)
Theory of wages and employment. The study of institutional factors affecting wage determination, income distribution and the efficient use of labor resources; the development of trade unionism and collective bargaining.

Ec 385-386 Economic Development (3, 3)
Theoretical examination of structural changes associated with the process of economic development; special reference to poor countries and analysis of criteria for policy judgments in development planning.

Ec 391 International Economics (3)
Fundamentals of international trade, international monetary system and selected topics involving international liquidity and adjustment mechanisms.

Ec 401 Advanced Macro-Theory Seminar (3)
Reading and analysis of modern developments in aggregative economic analysis.

Ec 402 Advanced Micro-Theory Seminar (3)
Reading and analysis of selected topics in contemporary developments in the theory of the firm.

Ec 405 History of Economic Thought (3)
Traces development of economic theory from the classical to the modern period. Attention is given to historical economics, institutional economics, national income economics and the American economic school.

Ec 461-462 Urban Economics: Principles and Problems (3, 3)
Examination of the urban complex, its origins, problems and future. Emphasis on such topics as housing, discrimination, transportation and decline of the central city.

Ec 482 Business and Government (3)
The development of the government's role in economic life. The relationship of government to business; anti-trust legislation and its effect on market structure and performance.

Ec 497-498 Independent Study in Economics (0-3, 0-3)
The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

Ec 499 Senior Project (0-3)
Required of all Economics majors.

POLITICAL SCIENCE

REQUIREMENTS FOR MAJORS

Majors must receive a grade of C or higher in both semesters of the pre-major course PS 221-222 *Patterns of Political Thought*, as well as in at least 10 semesters of upper division courses in political science which must be distributed to include at least 2 semesters in each of the following areas: American (A); International and Comparative Politics (B); Political Thought and Theory (C). The required semesters in each area must be selected from the courses labeled either (A), (B) or (C).

Majors should also submit an acceptable senior project. Close consultation with the chairman of the department is strongly urged for any student intending to pursue graduate study.

REQUIREMENTS FOR MINORS

The minimal requirements for a minor in political science consist of 6 semesters of upper division courses in political science equally distributed among the 3 above-mentioned areas.

PS 101 The Political Man (3)

An inquiry into the political dimensions, structures and viable alternatives in the contemporary world.

PS 102 Introduction to Political Analysis (3)

A study of the science and art of political analysis as applied to the investigation of selected contemporary issues. The problems of testing of propositions against the data of experience by observation, classification and measurement.

PS 103-104 Dissent: The Growth of Consciousness in Antiquity (3, 3)

The theme of dissent will serve as a framework within which major figures of Greek and Roman civilization, both literary and historical, will be studied. Readings, discussions and occasional lectures. No prerequisites.

(Same as CI 103-104)

PS 221-222 Patterns of Political Thought (3, 3)

An exploration of the genesis of significant political ideas and thought-patterns operative now and incorporated in the socio-political, intellectual and ideological structures and processes.

PS 301-302 American Government (3, 3) (A)

First semester devoted to the Federal system with attention directed to the Constitution, civil rights, the presidency, Congress and the federal judiciary. Second semester concerns the state and local areas with attention directed to the state constitutions, governorship, legislature; rural local government, the county and its traditional offices, state courts and municipal governments; the rising challenge of the metropolitan problems.

PS 303 American Political Parties (3)

Nature and purpose of political parties; the history of major and minor political parties; party leadership and techniques; the suffrage. A reading-discussion course.

PS 304 State and Local Government in the United States (3)

State constitutions, fiscal practice, taxation, budgeting, governorship, electoral laws, legislature, judiciaries, city, county and town administrations; the problems of metropolitan areas.

PS 305 Public Administration (3)

Basic concepts and organization principles of bureaucracy; the place of administration and the role of administrators in the American system of government; patronage and merit; career service and political executives; pressure groups. The process of social, economic and financial decision-making.

PS 307 American Political Thought (3) (A)

Selected problems in American Political Thought to be explored intensively.

PS 308 Race Relations in America (3)

Analysis of the political, social, cultural and economic factors underlying contemporary race relations and an examination of the attempts to resolve racial problems.

PS 311-312 Urban Practicum (3, 3)

Involvement in an urban office or agency, governmental or private, to study in the broadest sense some aspect of an urban problem under the direction of the Archdiocesan Planning Office. One semester only. Enrollment in the course, type of work, hours and place, to be arranged with the instructor.

PS 313-314 Development of American Institutions (3, 3) (A)

In the first semester, the course will focus on the public sector, including the Presidency, the courts, administrative agencies and political parties. The second term will be devoted to the private sector: the universities, the communications media, business and finance, labor unions and the Church. While considering procedure, the course will deal primarily with the allocation of policy-making powers, the choice of institutions for reform, and the problems of implementation regarding acute current issues.

PS 315 Law and Social Control (3)

Through case studies, the course will examine the methods by which the American legal system shapes the nation's social fabric.

PS 317 Government in Urban Areas (3)

The responsibilities, authorities and activities of local government units will be considered within the context of problems raised by structure, powers and territorial definition. Particular attention will be devoted to the distribution of power between state and local authorities, metropolitan financing, real estate development, decentralization of city government and the role of federal grants. Contemporary problems will provide the materials and emphasis will be placed on the function

of lawsuits as a means of directing governmental powers.

PS 318 Civil Rights and Civil Liberties (3)

An historical and analytical review of the development of human rights in the American legal system. Selected topics will be considered: (1) freedom of religion, (2) censorship and privacy, (3) freedom of speech, (4) national security and loyalty, (5) the right to vote, (6) racial discrimination. Cases reviewed will range from traditional constitutional dogma to the legal frontiers suggested by litigation involving Martin Luther King, Pete Seeger, Timothy Leary, and Benjamin Spock.

PS 322 Development of American Law (3)

Legal principles and institutions will be considered in historical perspective, from English origins to current reform movements. Particular attention will be devoted to changing concepts of law, the Anglo-American common law tradition, the relation of economics, politics and law, and the emergence of unique rights in the United States.

PS 323 Seminar in the United Nations (3)

A study of current issues before the main organs of the United Nations involving the preparation of draft resolutions for presentation to the National Model United Nations. Students will serve as delegates from a selected country to the NMUN.

The course is given throughout two semesters but credit is given only at the end of the second semester.

PS 325-326 Comparative Politics (3, 3) (B)

A comparative analysis of political patterns and systems selected from the West European, Soviet and Asian areas: France, Great Britain, West Germany and the USSR; Japan, India and China. Major issues in the politics of the countries considered.

PS 327-328 Politics of World Order (3, 3) (B)

This course focuses on the problem of attaining world peace. The existing processes of peace are evaluated as well as the possibilities of developing a workable system of world order. Continuing conflicts in contemporary international relations are considered.

PS 329 International Relations in No-man's Lands (3) (B)

An analysis of legal and political issues arising in the sea, air, and space environments. Special attention is given to recent and forthcoming developments in the legal regimes of these environments, as well as to conflicts of interests among states and to efforts to achieve international cooperation.

PS 332 Political Development of the European Community (3) (B)

This course provides a study of the political framework of the Western European Community and deals with the political aspects of the Common Market's relations with the world. The process of Western European Integration is analyzed.

PS 333 Law and International Politics (3) (B)

An examination of the nature of international law and its uses in international politics, notably in recent political crises and controversies.

PS 334 Political Sociology (3) (C)

An inquiry into selected areas of political sociology; representative theorists; the physical and social frameworks of politics; sources of political antagonisms; political strategies; the processes of political integration; public opinion and propaganda.

PS 341 Dissent and Revolution (3) (C)

An inquiry into the foundations, structures and projected consequences of political activism.

PS 342 Political Anthropology (3) (C)

A critical comparative analysis of the Lockean, Hegelian, and Marxian notions of man, their bearings on political reality and political programs, their confrontation with Christian commitment.

PS 343 Political Imagination (3) (C)

An inquiry into the nature and role of imagination in the formulation of political aspiration and in the dynamics of communication as expressed, primarily, in the works of literature.

PS 344 Politics of Hope (3) (C)

A problematic and critical exploration of the Christian condition in the contemporary world with introductions to Gandhi, Mao Tse-tung, Nyeure, H. Marcuse, Ernst Bloch and Emmanuel Mounier.

Offered in collaboration with the Psychology and Religion Departments, PG 486 and Rel 352.

PS 345 Russian Revolutionary Tradition (3)

History of Russian revolutionary movement from the Decembrist revolt in the first quarter of the 19th century to Trotsky-Stalin controversy in the 1920's. Survey of ideologies of Nihilism, Populism, Terrorism, Menshevism and Bolshevism. Intensive study of the socio-political and ideological roots of Leninism and Stalinism.

PS 346 Political Thought from Lenin to Brezhnev (3)

Intensive examination of the political ideas of the leaders of the Soviet Union from its origins in 1917 to the present. Study of the interaction between the Communist program of action and the Soviet domestic and foreign policies.

PS 351 Seminar: Religious Institutions and the Politics of Social Change (3)

Directed field experience in which seminar participants will investigate how specific churches and synagogues respond to social issues. Participants will be asked to analyze the socio-political and religious profile of a particular church or synagogue and to assess the dynamics of response within that institution. Emphasis on the formulation of major questions and on the development of observation techniques by seminar participants themselves. Bi-weekly seminar meetings. (Same as Rel 381).

PS 404 Seminar on Practical Politics: Nuts and Bolts (3)

An intensive analysis of the numerous and often detailed problems of practical politics by examining the "why" and "how" of political action. Emphasis is placed on how one may become or support a successful candidate for elective office on the national, state or local level. Examined will be such subjects as getting started, campaign organization, finances, volunteers, research, publicity, media, polling, canvassing, election day procedures, etc. A research paper is required and personal involvement in a political campaign is encouraged.

PS 451 Political Theory Seminar (3)

A study in depth of major trends in contemporary Political Science, their empirical and theoretical foundations and methods.

PS 497-498 Independent Study in Political Science (0-3, 0-3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

His 379 American Constitutional Development (3)

See History section for description.

Soc 351-352 Comparative Systems (3)

See Sociology section for description.

PS 499 Senior Project (0-3)

Required of all Political Science majors.

PSYCHOLOGY

Types of courses: The Psychology Department has three main areas of concentration: personality and social psychology, developmental psychology, humanistic psychology. At the same time training is given in the various research methods. Students may choose to concentrate in consultation with the chairman. Courses are numbered to indicate level of content and area of concentration.

PG 100: Introductory courses and prerequisites

PG 200: Those in the 220's are also prerequisites; above 220 are more general courses open to sophomore majors and minors.

PG 300: These are open to juniors and are advanced courses.

PG 400: These are open only to advanced juniors or with the approval of the instructor.

The areas of concentration are numbered in this way:

40 Developmental

50 Personality

60 Methodology and Learning Theory

70 Social and Cultural

80 Humanistic

REQUIREMENTS FOR MAJORS

Prerequisites: (1) PG 171 or 172

(2) Math 113-114 (Mathematics for Behavioral Sciences). One semester is sufficient. Two semesters are recommended.

(3) PG 225

Required Courses: PG 228, PG 255, PG 333-334 and at least four other courses above PG 230.

A senior project, PG 499, is always required.

REQUIREMENTS FOR MINORS

Prerequisite PG 203 or PG 225 and four other courses above PG 230 in the area of concentration chosen by the students under the direction of one or more members of the department. Two courses at least should be over PG 300.

PG 171-172 Human Anatomy (3)

A study of all the systems of man including both gross and microscopic anatomy. PG 172 is equivalent to PG 171 but is given in the second semester.

PG 203 General Psychology (3)

A beginning course in psychology for non-psychology majors. Emphasis will be placed on the chief problems of psychology and their practical applications.

PG 225-226 Introduction to Psychology (3, 3)

A study of the chief problems of psychology and an introduction to methods of research. For majors only. PG 226 is the same as PG 225 but is offered second semester.

PG 228 Statistics (3)

An introduction to statistical terms and concepts; measures of central tendency, variability, and relationship; theory of sampling; reliability of statistical measures; regression and prediction.

No late registrants will be accepted in this course.

PG 245-246 Child Development (3, 3)

Introduction to human development from conception through late childhood. Physical, intellectual, social, and personality development will be studied with attention to relevant genetic and environmental factors.

PG 246 same as PG 245 taught in second semester.

PG 247 Cognitive Growth (3)

Intensive examination of selected topics in cognitive growth, focusing on the contributions of Piaget and social-learning theorists.

Prerequisite: PG 245 or 246.

PG 248 Developmental Psychology (3)

Study of the emotional, moral, intellectual and social problems of each age from childhood through old age in the light of various theories of human development, especially those of Erikson, Piaget, Allport.

Not open to freshmen or sophomores non-majors or minors.

PG 255 Theories of Personality (3)

A consideration of the major personality theories. Attention is given to their utility in understanding normal personality.

PG 256 Psychological Assessment (3)

An inquiry into the nature and problems of psychological assessment. Several major objective and projective tests will be examined and evaluated with respect to reliability, validity, standardization and practical applications.

Prerequisites: PG 228 and PG 255.

PG 268 Physiological Psychology (3)

A survey of the effect of the systems of the body on the per-

sonality with major emphasis on the nervous system. This course presupposes a knowledge of human anatomy.

PG 333-334 Experimental Psychology (3, 3)

Basic concepts and development of experimental psychology. Introduction to experimental methods and writing research reports. Laboratory experiments in sensorimotor reactions, reaction time, association and learning processes, work and fatigue curve, emotional reactions, and social behavior.

PG 341 Psychology of Religion and Moral Development (3)

A study of the interrelationship of moral and religious values as these affect the development of personality. An attempt will be made to distinguish and assess the contributions (1) of religious ethics and (2) of moral and developmental psychology to the study of morality.

PG 344 Human Ecology (3)

An inquiry into some current bio-social problems facing mankind, including the intellectual, social, and political factors involved in such problems as overpopulation, environmental pollution, conservation, urbanization and food supply.

PG 351 Abnormal Psychology (3)

An introduction of psychopathology. In addition to formal diagnostic categories, illustrated with case histories, this course explores theories and empirical data relevant to the understanding and treatment of maladaptive behavior.

Prerequisite: PG 255

PG 365 History of Psychology (3)

A study of the development of psychology from its origins in philosophy, the biological sciences and sociology to its present forms. Emphasis on main problems, solved and yet unsolved, which have characterized the discipline. This will be done by directed study. It is a reading course.

PG 366 Theories of Learning (3)

A study of theoretical and empirical bases for understanding the learning process, and an exploration of the development and forms of cognitive process. Attention is given to language acquisition, curiosity, creativity and related phenomena.

PG 371 Social Psychology (3)

The study of normal human behavior in terms of interaction with other individuals, in small groups and in larger organizations. Consideration of major theories and research findings in the field of social psychology.

PG 372 Culture and Personality (3)

The relationship between personality and the cultural context in which the personality patterns develop. Consideration of major theories of personality in the light of cultural differences. Major emphasis will be placed on minority groups and subcultures within American culture. Prerequisite PG 255 or approval of instructor.

PG 374 Group Dynamics (3)

Overview of the theory and research on major aspects of small group functioning, e.g. leadership, communication, performance. The emphasis in the course will be on reports from the psychological literature, but students may participate in one or more group experiences as additional sources of understanding group process.

Prerequisite: PG 371 or approval of instructor.

PG 376 Industrial Psychology (3)

Emphasis will be placed on the theoretical and social foundations of industrial psychology. Topic areas considered will include: decision making; organizational behavior; human relations and management problems; principles of human performance.

PG 381 Humanistic Psychology (3)

Readings and discussion of the chief works of Freud, Jung, Fromm and the humanistic psychologists such as Maslow, May, Rogers and Laing. These readings emphasize the theories of religion, creativity, symbolism and society.

PG 446 Emotional Problems of Childhood (3)

Diagnosis, prognosis, treatment and prevention of disorders in childhood, ranging from mild behavior problems to psychosis. Emphasis on biological and psychological theories and research.

Prerequisites: PG 245 or 246, PG 352.

PG 453-454 Clinical Procedures (6)

A year-long course offering one or two afternoons of field work with adults or children. The lectures and discussions will emphasize the role of the psychologist and other mental health workers, the place of mental health services in a community structure, the relationship between client and helper and evaluation of effectiveness of service. Students must enroll for both semesters. No credit will be given for one semester.

PG 465 Comparative Psychology (3)

An introductory laboratory course in the psychology of animal behavior. Major topic areas will include: Why study animal behavior?; methodological considerations in animal research; sensory processes; instinct theory; experience and development of behavior.

PG 471-472 Field Research in Social and Community Psychology (3, 3)

Advanced students will be accepted for independent study projects in any one of the major areas of social psychology, such as attitude change, cognitive theory, motivation, survey research, etc.

A limited number of advanced students will be accepted for independent study projects in areas of community psychology, such as role of the psychologist, new concepts in the delivery of mental health services, evaluation of community mental health. Students are urged to participate in these projects as teams of two.

One or two semesters upon consultation with the instructor.

PG 482 Theories of Self in Philosophy and Psychology (3)

An inquiry into the development of the idea of the self as seen by philosophers and psychologists from Descartes to the present day.

Prerequisite: 255 or permission of the professor.

PG 485 Psychology of Women (3)

Students do independent research on psychological aspects of women in relation to contemporary society. Limited to 15 students. Permission of the instructor.

PG 486 Psychology of Hope (3)

Readings in the works of those psychologists who stress the creative potential of each man and of mankind rather than the abnormalities. Done in collaboration with PS 344 and Rel 352.

PG 497-498 Independent Study in Psychology (0-3, 0-3)

Selected upperclassmen will be allowed to do research on projects under qualified psychologists in the Boston area. The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

PG 499 Senior Project (3)

Presentation of research done on one problem in psychology to the Department for evaluation. Project may be completed in either the fall or spring semester.

Religion

REQUIREMENTS FOR MAJORS

With the advice of a professor in the department, each student should plan a program of at least ten courses (to be completed with a minimum grade of C), including Rel 141-142, at least four Special Courses, and at least four Advanced—one of the last to be the Senior Seminar.

REQUIREMENTS FOR MINORS

With the advice of a professor in the department, each student should plan a program of at least five courses (to be completed with a minimum grade of C), at least two of which should be Special Courses and at least one, Advanced.

STRUCTURE OF CURRICULUM

The curriculum is structured vertically according to degrees of methodical rigor into Introductory, Special, and Advanced courses and horizontally according to distinctions of method into eight functional specialties.

- 100 *Introductory Courses*: Intended to impart an appreciation for the religious dimension of human existence and an initiation to the scientific study of religion.
- 200 *Special Courses*: Designed to provide a systematic grounding in the application of specific methods of inquiry to various fields of religious study.
- 300 *Advanced Courses*: Meant to inculcate an expertise in the use of specific methods for the study of religion.

The functional specialties are:

- 10 *Research*: The gathering of the data of religious experience and religious institutions.
- 20 *Interpretation*: The analysis of religious data in their proper historical and cultural context.
- 30 *History*: The study of the development of religious movements within the context of world history.

- 40 *Dialectics*: The critical evaluation of religious history in order to arrive at a comprehensive viewpoint.
- 50 *Foundations*: The determination of the import of a Christian horizon for human existence.
- 60 *Doctrines*: The examination of the dogmatic, moral, ascetical, mystical, and pastoral teachings of the Church.
- 70 *Systematics*: The clear and consistent conceptualization of Christian doctrines according to a particular philosophical outlook or way of thinking.
- 80 *Communications*: The consideration of the methods and the media for religious education and religious practice.

Rel 111 Tutorial in Biblical Hebrew (3)

Introduction to basic vocabulary and grammar of Biblical Hebrew. Emphasis on learning to read simple sentences in the Hebrew Old Testament and on acquiring a facility in using the critical notes in the Hebrew text.

Rel 112 Tutorial in Elementary Sanskrit (3)

Introduction to basic vocabulary and grammar; guidance in reading sacred scriptures of India, such as the *Rigveda* and the *Upanishads*.

Rel 121 Introduction to the Bible (3)

A survey of the biblical literature (Old and New Testaments) including an introduction to various modern presuppositions and methodologies of biblical study. Emphasis on the historical and theological development of the Israelites, the Jews, and the early Christians as they struggled with the problems of God, man and the world.

Rel 131 Religion in America (3)

A study of the historical and cultural context of religious developments in America, with research into and interpretation of primary sources, in order to achieve an understanding of major themes, movements, and institutions.

Rel 141 Introduction to the Study of Religion: Part I (3)

A consideration of the religious dimension in human consciousness; an analysis of the origins and significance of primitive religions; a study of the religions of the Far East.

Rel 142 Introduction to the Study of Religion: Part II (3)

An analysis of the origins of religion in the Near East; a study of the development of Judaism, Christianity and Islam; a consideration of the significance of secularization; and a description of religious methodology.

Rel 153 Love and Violence (3)

A study of the practicality of Christian love, beginning with a consideration of the violence in contemporary protest movements, going on to an analysis of nonviolent resistance particularly as exemplified in Martin Luther King and Mahatma Gandhi, and concluding with an examination of the implications of Jesus Christ's command of brotherly love.

Rel 211 Biblical Archaeology and Biblical History (3)

History and methodology of Near Eastern excavations including a concentrated study of several archaeological sites. Analysis of the contributions of archaeological research to a more accurate understanding of the history and everyday life of the biblical period (Old and New Testament times) within the broader context of the history of the ancient Near Eastern and Mediterranean worlds.

Rel 221 Old Testament Prophets and Modern Social Problems (3)

The prophets as a major influence in the historical and theological development of the people of Israel. The phenomenon of prophetism and its development will be studied in detail. Particular emphasis on the relevance of the prophetic ideal to the modern world including an attempt to define modern prophets.

Rel 222 Pauline Theology (3)

An in-depth study of the letters of Paul with particular emphasis on Paul's contribution as a theologian to the on-going life of the early church. Consideration of major theological themes (e.g., Christ, the Church, Spirit, Christian Love) and of the historical and religious conditions which provided the context for the various responses of Paul.

Rel 223 Biblical Theology (3)

An examination of current attempts to formulate a biblical theology (based on both testaments) including an analysis of some of the problems involved in such a task. Detailed study of major biblical theological motifs with an opportunity for individual study of particular themes which are of interest to the student.

Rel 224 Sacred Scriptures of India (3)

Interpretation of verbal expressions of ultimate concern from Indian scriptures, including the *Rigveda*, *Samaveda*, *Yajurveda*, *Upanishads*, *Agamas*, and *Puranas*; Jaina, Sikh and Parsi scriptures will also be included.

Rel 225 Buddhist Sacred Texts (3)

Study of Theravada, Mahayana and Vajracchedika scriptures; interpretation of these texts according to selected doctrinal schools.

Rel 226 Indian Mythology and Iconography (3)

Interpretation of religious functions of myths and icons as representations of the sacred within various Indian belief systems.

Rel 231 Religion in India (3)

An historical study of various patterns of ultimate concern in India as they appear in the theological and philosophical systems, sacred texts, and religious ritual and organizations of Indian culture.

Rel 232 Followers of the Buddha in India (3)

An historical study of the development of the Buddha and of subsequent Buddhist communities of faith and practice.

Rel 233 Religion in China (3)

An historical study of the variety of ultimate concerns in China as they appear in theological and philosophical systems, sacred texts, and religious ritual and organizations of Chinese culture.

Rel 234 Religion in Japan (3)

An historical study of the variety of ultimate concerns in Japan as they appear in belief systems, sacred texts, and religious ritual and organizations of Japanese culture.

Rel 235 Religion in Africa (3)

An historical study of the variety of ultimate concerns in Africa as they appear in belief systems, sacred texts, and religious ritual and organizations of African culture.

Rel 236 Sectarian Judaism and Primitive Christianity (3)

Consideration of the religious and historical milieu in which the early Christian Church arose. Survey of the various sect groups within Judaism prior to the rise of Christianity (e.g., Essenes, Hellenistic Jews, Pharisees, Sadducees) followed by an in-depth study of the experience and problems of the early church as it moved out of the context of Judaism into the Gentile world.

Rel 237 The Development of Christian Doctrine (3)

An historical study of the engagement of Christianity with the Hellenistic culture of the Roman Empire, with equal attention to the formulation of the doctrines of the divinity of Christ and

the Blessed Trinity and to the organization of Christianity as the Church.

Rel 238 Black Religion in America (3)

A documentary study of the variety of religious experience and expression among black men in America; interpretation within American historical, cultural and religious context; dialectics of forces studied.

Rel 239 Modern Judaism (3)

An examination of the historical and theological process by which modern Judaism emerged including a study of Jewish festivals and present-day theological trends in Judaism. Some attention will be given to the theological bases for Jewish-Christian dialogue. Field experience in Greater Boston area encouraged.

Rel 241 The Ecumenical Significance of the Reformation (3)

An evaluation of the Reformation in its origins, course and consequences; with particular attention to the thought of Luther, Munzer, Calvin, and Wesley; and a consideration of the Counter-Reformation era in Catholicism.

Rel 251 The Death of God in the Modern World (3)

A study of the meaning of secularization, with particular attention to philosophical objections to the existence of God, and a consideration of Christian atheism.

Rel 261 Jesus of History/Christ of Faith (3)

An examination of belief in Christ, especially regarding his human consciousness, in light of the modern quest for the historical Jesus.

Rel 262 Suffering and Dying (3)

A reflection upon the meaning for the Christian of acts of suffering and dying as both necessity and opportunity.

Rel 311 Religious Documentary Production (3)

Advanced, interdisciplinary seminar to learn research methods through experience by producing interpretations of religious communities on film.

Prerequisites: Basic Film Making, (AS 272) and Religion in America (Rel 131).

Rel 321 Mythology in the Bible and in the Literatures of the Ancient Near Eastern and Mediterranean Worlds (3)
Examination of various ancient mythic types: e.g., the creation, the flood, the fall, dying and rising deity, with an attempt

to discern the function of myth in the religious life of a people. Analysis of the unique contributions of the Israelites and the early Christians to mythic literature.

Rel 322 Interpretation of the Synoptic Gospels (3)

Emphasis on the nature of the synoptic gospels as sources with the focal point of interpretation being the problem of the historical Jesus.

Rel 323 Zen and Other Buddhist Systems (3)

An examination of the primary sources of Zen and of other selected Buddhist systems to determine their basic beliefs and practices.

Rel 331 Far Eastern Religious Movements in America (3)

A study of the pluralistic nature of religion in modern America and of the impact of Far Eastern religions.

Rel 341 The Meaning of Human Existence (3)

An analysis of the dynamics of human consciousness, with particular attention to the emergence of the religious dimension, and a consideration of the conditions for the possibility of faith.

Rel 351 A Philosophy of Religion (3)

A determination of the significance of a religious perspective on life, with attention to the questions of revelation, prophecy, inspiration, and tradition, and a consideration of the meaning of prayer and mysticism.

Rel 352 A Theology of Hope (3)

A reflection upon the Christian origins and consequences of Ernst Bloch's politics of hope (in coordination with PS 344, and PG 486).

Rel 353 Biblical Perspectives on Modern Life (3)

Emphasis on dialogue between biblical and modern views of life. Consideration of various hermeneutical methods by which modern man seeks to understand the Bible followed by an assessment of the challenge of the biblical message to modern man. Such issues as life-style, the nature of personhood, the nature of love, etc. will be considered. Primary source material includes the parables of Jesus and selected Old Testament readings.

Rel 371 Philosophical Theology (3)

An examination of 'God-talk', with an evaluation of various approaches to systematic theology, including phenomenology, existentialism, process-thought, and linguistic analysis.

Rel 381 Religious Institutions and the Politics of Social Change (3)

Directed field experience in which seminar participants will investigate how specific churches and synagogues respond to social issues. Participants will be asked to analyze the sociopolitical and religious profile of a particular church or synagogue and to assess the dynamics of response within that institution. Emphasis on the formulation of major questions and on the development of observation techniques by seminar participants themselves in conjunction with PS 351.

Rel 401 Senior Honors Seminar (3)

Rel 497-498 Independent Study in Religion (0-3, 0-3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

Rel 499 Senior Project (3)

Required of all Religion majors.

Sociology

REQUIREMENTS FOR MAJORS

Soc 101-102 (pre-major course), Soc 301-302, Soc 303, Soc 401-402 in Senior year. Eight upper division courses with grade of C or better; six courses must be taken from courses offered in the Sociology department and two courses may be chosen from courses offered in other departments listed below. Satisfactory completion of a Senior Project.

REQUIREMENTS FOR MINORS

The Sociology department also offers a minor in sociology for students who complete Soc 101-102 and three upper division courses with a grade of C or better.

Soc 101 Sociology I (3)

Sociological concepts. Society and Culture. Social groups. Stratifications. Age and Sex groups. Collective behavior.

Soc 102 Sociology II (3)

The population problem. Communities and urbanization. Inheritance and race. Mass communication media and censorship. Bureaucracy. The Family. War and revolution.

Soc 301 Sociological Theory I (3)

Central theoretical ideas and concepts used by major thinkers will be examined including the notion of community, authority, status, the sacred, alienation. The formulations of individual men (Durkheim, Weber, Marx, Simmel) will be explored in depth.

Soc 302 Sociological Theory II (3)

Continuation of Soc 301 with consideration of the work of contemporary sociologists (Parsons, Merton), or those who have been critical of traditional sociological frameworks (Mills, Hoffman, Horowitz).

Soc 303 Statistics (3)

Statistical methods used in Sociology. Collection and presentation of data. Measures of central value and dispersion. Statistical inference. Regression and correlation. Techniques in social research.

Soc 304 Research Methods (3)

A survey of the strategies and ideological orientations of various sociological research perspectives, such as participant observations, interviewing, the survey and the experiment. Stress will be placed on the "how" and "why" of research orientation more than on the details of "what" to do.

Soc 310 Problems of American Society (3)

A consideration of some critical issues of contemporary American life, especially in the areas of women's liberation, the University, racism, politics and the economy. Students will be encouraged to integrate their participation in society with their academic reading.

Soc 321 Sociology of Deviance (3)

The meaning and process of deviance for different individuals and groups will be examined. Consideration will be given to modern theories. The notion of social control of deviance will also be explored.

Soc 323 Urban Problems (3)

Discussion and field work in the Greater Boston area concerning the interrelationship of various social, political and

economic problems. Issues such as rent control, suburban zoning, Model Cities, transportation and other questions will be examined.

Soc 324 Sociology of the Family (3)

Will explore how the notion of "family" is viewed according to various conceptual frameworks. Internal dynamics of the family as well as the family in relation to society will be discussed. Psychological and cross-cultural frames of reference will be used in exploring alternatives to the nuclear family such as the commune.

Soc 331 Anthropology (3)

An introduction to the study of the origin of man and culture. Institutions and folkways of primitive societies.

Soc 332 Applied Anthropology (3)

Will study the changing patterns of different societies, the processes involved and analyze the effects of innovations in given cultures.

Prerequisite: Soc 331.

Soc 334 Human Geography (3)

The purpose of the course is to give an understanding of the reciprocal nature of man and his environment. Review of physical geography, the types of climates, relief, soils to which man has to adapt his life. The ecological changes brought about by man.

Soc 335 Contemporary Social Movements (3)

The basic nature of social movements as the solution of collective problems will be examined. Determinants and motives to join will be explored. Social movements will be viewed as responses to current social and political issues.

Soc 336 Minority Groups (3)

Origin, structure and problems of minority groups in the United States.

Soc 337 Sociology of Religion (3)

Will examine the meaning of religious experience from various perspectives and the structure and function of religion in modern societies. Stress will be given to how the definition of religion varies among different individuals and groups.

Soc 339 Primitive Religion (3)

A survey of primitive religions, beliefs and ceremonies. Will also study the role of magic and witchcraft in primitive societies.

Soc 340 Social Work (3)

Development and organization of social services. The fundamental methods in the different fields of social work.

Soc 341 Sociology of Technology (3)

Will focus on the role of technology in societies both extinct and extant, emphasizing particularly the social effects of technological changes during and since the industrial revolution.

Soc 343 Sociology of Occupations and Organizations (3)

Will consider the interrelationship and historical transformation of occupations and organizations, concentrating particularly on the causes and consequences of the differentiation of occupations and the development of large-scale bureaucracies in industrial societies.

Soc 351-352 Comparative Systems (3, 3)

Study of the theories, origins, history and practices of Capitalism, Communism, Socialism, National Socialism.

Soc 401-402 Senior Seminar (2, 2)

Soc 404 Social Problems (3)

Major social problems selected by the class will be studied in depth.

Soc 497-498 Independent Study in Sociology (0-3, 0-3)

The student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by a representative of the Dean's office.

The student must successfully carry through the project as outlined. It is only if these conditions are satisfied that Independent Study will carry academic credit. Only one Independent Study course should be carried in any one semester.

Soc 499 Senior Project (3)

Required of all Sociology majors.

Courses offered in other departments of which two courses chosen will count as upper division courses for Sociology majors:

Ec 370 Labor Economics and Problems (3)

His 205-206 Social and Cultural History of the United States (3, 3)

His 381-382 The Black Man in American History (3)
Phil 234 Philosophy of the Community (3)
PS 334 Political Sociology (3)
PS 341 Dissent and Revolution (3)
PS 311-312 Urban Practicum (3, 3)
PG 248 Developmental Psychology (3)
PG 371 Social Psychology (3)
PG 372 Culture and Personality (3)

**Institute of
Open Education**

The Study of World Cultures

IS 101-102 The Study of World Cultures I (5, 5)

IS 201-202 The Study of World Cultures II (5, 5)

The course provides an opportunity to single out for attention the great problems which have faced Western man. By way of comparison, other cultures are drawn upon to illuminate the manner in which mankind has grappled with its questions—political, social, economic, philosophical, artistic and religious. A list of readings including both primary and secondary sources gives depth to the treatment of the material. The course, which is a “study”, not a “survey”, is interdisciplinary in nature and selective in its coverage.

American Studies Program

COURSE OF STUDY:

The student in American Studies must have a grade of C or better in thirteen semester courses, including AM 401 or AM 402. Within that credit hour distribution, each major is to choose at least one major field *and* one minor field of con-

centration. Work in the major field consists of at least twenty-four (24) credit hours and the minor field at least twelve (12) credit hours. Presently, major fields of concentration include: American History, American Government and Politics, Sociology, Economics and American Literature. Minor fields include any of the designated major fields plus American Art, American Philosophy, Religion in America and Education.

It should be noted that when the all-college requirements (SWC and English Composition) and American Studies distribution requirements are fulfilled, each student still has the equivalent of over two years of academic offerings to choose as she pleases. Most majors, therefore, try to broaden their study of America by choosing offerings in as many disciplines as possible.

A major such as this allows for maximum freedom but also places much responsibility on each individual student. Therefore each student is encouraged to seek as much counselling as she needs in order to fashion a meaningful and comprehensive educational experience. Those students who plan to enter specific career fields or contemplate continuing their education in graduate or law schools are reminded of the advisability of planning their courses with this in mind.

All majors should submit their proposed schedule of courses to their advisor and the Coordinator of American Studies prior to semester registration. Additionally, each student is encouraged, though not required, to participate in some Independent and/or Work Study programs. It is recommended, however, that not more than one semester or its equivalent be used for such purposes.

COURSE OFFERINGS

American Studies majors enroll in appropriate courses offered by the various departments at the college. A listing of courses, in each department, applicable for American Studies credit may be obtained from the Program Coordinator. The course selection is most comprehensive. Theoretically speaking, should a student desire to take every course applicable for American Studies she would need eight years to complete her studies. In addition there are some specifically designed courses for American Studies which include:

AM 401-402 American Studies Seminar (3, 3)

An examination in depth of certain significant developments of the American experience with an emphasis on the modern period. Open only to seniors majoring in American Studies or American History. AM 402 is a repetition of AM 401 given during the second semester.

AM 495-496 Work Study (0, 3; 0, 3)

A student who wishes to take one or two semesters of Work Study will present a typewritten detailed description of the project to be undertaken as agreed to by the professor monitoring the project and as approved by the Dean's office.

AM 497-498 Independent Study in American Studies (0, 3; 0, 3)

A student who wishes to take one or two semesters of Independent Study will present a typewritten detailed description of the course requirements as agreed to by the professor giving the course and as approved by the Dean's office. Normally, not more than one Independent Study or Work Study should be carried in any one semester.

AM 499 Senior Project (3)

Education

Courses in education offer an introduction to basic philosophical, historical, psychological, societal issues. Seminars and practicums provide opportunity for involvement and training in a variety of educational settings. The total program allows students to fulfill the requirements for teacher certification. However, it is directly designed to give them a broad vision of educational concerns, and the power to serve those concerns beyond the traditional school framework.

ED 201-202 Seminar: Philosophy and History of Education (4)

Philosophical analysis of selected educational problems and writings.

ED 205-206 Survey of Educational Resources of the Greater Boston Area (4)

An introductory course providing information and opportunity for observation in a variety of formal and informal learning sites.

ED 209 Introduction to Suburban Community Education: Seminar and Practicum (4)

Closely supervised participation in teaching at the junior high school level. Weekly meeting to discuss on-site experience and selected readings.

ED 301 Observing Children: Elementary Education: Seminar and Practicum (4)

Each week every participant will observe children for a set period of time in a particular type situation which will differ each week. The experiences of each observation period will be used as the basic discussion material of weekly group meetings.

ED 302 Making and Meaning: Elementary and Secondary Education (4)

A great variety of material will be available from which participants will come to make something. Each making session will be followed by a discussion period in which the meanings of the making will be explored.

ED 303 Learning with Children: Elementary Education (4)

Each week every participant accompanied by a child will work for a set period in an attempt to solve a problem or learn a new skill. The experiences of the learning period will be used as the basic discussion material of weekly group meetings.

ED 304 Designs for Learning: Elementary Education: Seminar and Practicum (4)

Each participant will design an activity for a child, then at a set time work through the activity with the child. The experiences of the learning period will be used as the basic discussion material of weekly group meetings.

Ed 309-10 Seminar and Practicum: Secondary Education (3, 3)

Discussion, readings and experience in teaching. Students observe and participate in learning activities with adolescents and common concerns are explored in weekly group sessions.

Ed 311 Alternative Educational Systems (3)

This course will be a practical one in which students will take on particular projects working with one of the new experimental programs in the Boston area. These might include the C.I.T.Y. School Without Walls, which will be in the design phase, the State Experimental School System, a community school, or some of the Open Campus programs. The purpose will be for the student to experience a variety of situations, meet interesting people, and, at the same time, develop a useful resource for the public schools.

Ed 313 Community Interaction Through Youth (C.I.T.Y.) (3)

This will be the history of how community participation brought into being a "school without walls" from the stage of being a concept to a project funded approximately to the extent of one million dollars. The steps and progress of the program will be explored, the structure of public education at local, state and national levels will be sketched out, individuals from the community who are critical of its success will be invited to speak.

Ed 315 Models of the Learning Process (3)

The learning process will be looked at—qualitatively—from several vantage points, including decision-making theory, problem solving, information flows and feedback systems, philosophy of education, theories of perception, adaptation theory, and students' individual perceptions of how they learn best. Teams will each produce a normative model and then come together to produce a generally acceptable formula in the form of a handbook of the learning process.

Ed 317 Technology and Education (3)

This will be a broad attempt to look at the impact of various technologies in education and find out the characteristics which are valuable. Some new and exciting developments will be looked at, including computer assisted instruction, at various levels of sophistication, simulations and games, and new technical developments such as highspeed recording, use of videorecorder in groups, the Syntectics approach toward group problem solving, microfiche, and new kinds of communications media.

Ed 401 Urban Community Education Practicum (8)

Students elect classroom or community settings for educational roles in the city. Discussion and readings will focus on student concerns and alternatives for commitment to urban service.

Ed 421 The Modern American School: Seminar and Practicum in Suburban Community Education (3)

This seminar will take as its focus the life of the modern American school, involving student, teachers, curriculum, community, etc.

Ed 422 Alternatives: Seminar and Practicum in Suburban Community Education (3)

Seminar topics will include American values and education, the educating community, and education alternatives. Will include field trips and once-weekly small group teaching practicum at a Junior High School in Newton.

Ed 423 Tutorial in Suburban Community Education (3)

Seminar topics will include American values and education, the educating community, and education alternatives. Will include field trips and once-weekly small group teaching practicum at a Junior High School in Newton.

Prerequisite: Ed 421.

Ed 431-432 Field Experience in Education (4)

Independent *non-teaching* education project.

Ed 440 Early Childhood Educational Planning (4)

Participation in in-service program for parents and teachers for local Day Care Centers.

Ed 497-498 Advanced Seminar and Practicum (4)

Practice teaching for seniors who have demonstrated special competence in teaching.

Liberal Studies Program

The Liberal Studies Program, begun in September 1970, is Newton's first large scale model for a curriculum which will not be discipline-centered and yet will give the student a coordinated learning experience, equip her with basic skills for thinking along the lines of several disciplines, and provide her the opportunity to cooperate with faculty advisors in shaping her own undergraduate career. Students who are selected to pursue this program must choose some fairly specific problem to be solved or movement to be investigated, and suggest how, within the resources of Newton's academic offerings, they plan to proceed. There is a Coordinator of Liberal Studies who must approve this plan, which should be neither too narrow nor too vague. Approached with intelligent curiosity and open-mindedness, and carried out with thoroughness and accuracy, such a plan will lead the student into many fields. She will want to know what has already been discovered or suggested about her problem or movement. She

will need to assess the answers already given and the kind of reasoning which has led to these answers. This need will urge her to examine the conditions, social, political, religious, philosophical and perhaps economic, which precipitated or influenced earlier efforts to deal with the questions concerned. It is clear that any superficiality in handling the multiple phases of these questions will be unsatisfactory to the serious student, who must yet, in the end, decide on one phase on which she may focus the results of her wide-ranging research. In this program, therefore, the Senior Project is particularly important. It will always consist of a somewhat lengthy scholarly paper, frequently linked—depending upon the subject—to field work. This paper will be the principal evidence of the success of the program, and will occupy considerable time in the last year of study.

It is clear that human development of the student is more important than the solution of a problem. For this reason, the Coordinator of Liberal Studies will keep as closely as possible in touch with the students engaged in this program, and periodically review how their investigations are progressing, so as to assure that the learning experience is synthesized, and that there is sufficient richness and variety in the experience to make it worthy to be synthesized.

The early years of this new departure in curriculum will gradually establish for it a firm though flexible pattern; student pioneers who opt for it must therefore realize that its success and survival depend on their working to make it quite visibly succeed.

A student who wants to substitute Liberal Studies for another major field will submit in writing to the Coordinator the problem or project which is the focus of her interest and a list of the courses which she proposes to take in the remaining semesters of her college career. It is understood that this list may be tentative and partial. It will be reviewed, and perhaps changed, each semester. The original plan on the basis of which the student will be accepted into the Liberal Studies Program or not may be submitted at the end of any semester, except the last two of the student's academic residence at the college. The Liberal Studies Advisory Board will consider the plan and together with the Coordinator will decide upon its suitability.

Interdisciplinary Course

IS 301 The Crisis in American Culture (16)

This is a pilot program in a cross-disciplinary approach to open education. There will be individual or group studies designed to explore the dilemmas in American culture especially from a religious and/or psychological point of view. It will constitute the entire semester program of each student. The thirty students will be chosen after personal interviews with the professors directing the program.

Graduate Program in Education

MASTER OF PHILOSOPHY (IN EDUCATION)

In July 1971 Newton College of the Sacred Heart introduced its first graduate program, a Master of Philosophy (in Education) (M.Ph.).

The fundamental principle of this graduate program is that it is the responsibility of Newton College of the Sacred Heart to provide a supportive administrative and social structure within which the student can create the programs of learning, the patterns of activity, best suited to prepare him as an educator.

As designed, the program is made up of three separate components. A formal program, created by the students, within what has been called the matrix. Next, a full year of carefully organized and supported intern teaching or administration and, finally, a second program created within the matrix. These three components are regarded as a whole and credit cannot be transferred from other courses or programs. The sequence is also mandatory, but it may begin in June, September or February.

Fees and Expenses

The costs to the student for a year at Newton College are explained below.

Tuition, Room and Board

TUITION:

For the 1971-72 academic year tuition will be \$1050 per semester.

ROOM AND BOARD CHARGE:

The room and board charge for the 1971-72 academic year will be \$650 per semester.

SCIENCE LABORATORY FEE:

Students enrolled in science laboratory courses will be billed \$25 per course as Science Laboratory Fee.

STUDIO ART FEES:

Students enrolled in studio art courses will be billed the following fees per course:

Drawing, Painting and Art History	\$ 5.00
(Drawing, Intermediate Painting, Introductory Studio, Art History with workshops)	

Two-Dimensional Design (Graphics, Developmental Painting)	\$10.00
Three-Dimensional Design (Ceramics, Weaving, Photography)	\$15.00

EXTRA REGISTRATION FEE:

An additional tuition fee of \$70 is charged for each semester hour above the normal schedule of sixteen hours. (This additional tuition fee does not apply to the Class of 1972. However, members of the Class of 1972 are required to pay eight semesters of tuition to the College.)

TUITION FOR PART-TIME STUDENTS

Part-time students may enroll for a maximum of eight semester hours. The tuition fee for such students will be \$70 per semester hour.

SUMMARY OF BASIC FEES:

Tuition for the academic year	\$2100
Room and board for the academic year	1300
	<hr/> \$3400

Other Fees

APPLICATION FEE:

A fee of \$15 is charged for initial application to the College. This fee is non-refundable.

LATE REGISTRATION OR CHANGE OF SCHEDULE:

There is a \$10 charge for registering after Registration Day or for dropping or adding a course after the deadline.

LATE RESERVATION DEPOSIT:

There is a \$10 penalty charge for paying the Reservation Deposit after the deadline.

GRADUATION FEE:

Students in the graduating class will be billed a \$25 graduation fee during the second semester of their senior year.

PARKING PERMIT FOR RESIDENT STUDENTS:

\$25 per year, applicable to all resident students having automobiles on campus.

PARKING PERMIT FOR COMMUTING STUDENTS:

\$15 per year, applicable to all commuting students having automobiles on campus.

Reservation Deposit

ENTERING STUDENTS:

A candidate for admission is charged a fee of \$15 for initial application. Upon notification that she has been admitted to Newton College, the candidate must return with her acceptance a Reservation Deposit of \$200 which will be credited in full to her tuition bill for the first semester. The Reservation Deposit is non-refundable after the due date except to a student whose academic record at the end of her senior year in high school proves unsatisfactory.

CURRENTLY ENROLLED STUDENTS:

Students currently enrolled at the College who wish to reserve a place for the next academic year must submit a \$200 Reservation Deposit by April 15. This deposit, which is credited in full to her tuition bill for the next semester, is non-refundable after the due date except to a student whose academic record is unsatisfactory.

Student Health Insurance

The College's Student Health Insurance covers limited medical and hospital expenses not included in the normal services of the Newton College Health Service. As students are normally covered by family insurance plans, the Student Health Insurance provided by Newton College is designed to supplement such paid policies and is not intended to be a comprehensive policy. Coverage is on an annual basis. A brochure describing coverage is forwarded to students and parents at the beginning of each academic year. Additional copies are available from the College Student Health Service.

ACCIDENTS

The plan provides reimbursement for all medical expenses up to \$1,000 which may result from accidents, and 75% of expenses in excess of \$1,000 up to \$1,500.

SICKNESS

In case of sickness, the policy provides reimbursement for medical treatment up to \$500, except that no benefit is payable for the first physician's visit if the student is not confined to a hospital. (The infirmary operated by Newton College of the Sacred Heart, Spellman Infirmary, is not a hospital.) For expenses above \$500, the policy covers 75% of incurred medical expenses up to \$2,000.

These benefits are in addition to any benefits the student may receive under a personal policy or membership in a hospital association. As students are normally covered by family insurance plans, the Student Health Insurance provided by Newton College is designed to supplement such paid policies and is not intended to be a comprehensive policy. Coverage is on an annual basis.

Schedule of Payments

RESERVATION DEPOSIT

Early Decision Applicants	by January 15
Entering Freshmen	by May 1
Currently Enrolled Students	by April 15
FALL SEMESTER FEES	by August 15
OTHER FALL SEMESTER CHARGES	Immediately
SPRING SEMESTER CHARGES	by January 15
OTHER SPRING SEMESTER CHARGES	Immediately

Note: All College fees are subject to change at any time at the discretion of the College.

Plans of Payment

Many Newton College families have, in recent years, elected to meet college expenses from current income through tuition payment plans which are available. Three such plans are endorsed by Newton College and further information may be obtained by writing directly to the addresses listed below.

- a) College Aid Plan, Inc.
1008 Elm Street
Manchester, New Hampshire 03101
- b) Education Funds, Inc.
Howard Building—Box 4
Providence, Rhode Island 02903
- c) The National Shawmut Bank
Tuition Aid Program
542 Commonwealth Avenue
Boston, Massachusetts 02215

Refund Policy

The tuition fee is not refundable except to a student whose credentials are unsatisfactory. The room and board fee may be returned on a pro-rata basis.

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1971-1972 Academic Calendar

FIRST TERM

Saturday, September 4	Juniors return to campus
Sunday, September 5	Freshmen arrive
September 5, 6 & 7	Freshman Orientation
Tuesday, September 7	Resident students return
Wednesday, September 8	Classes begin
Monday, October 11	Columbus Day (<i>Holiday</i>)
Monday, October 25	Veterans Day (<i>Holiday</i>)
Wednesday, November 24 <i>through</i>	
Sunday, November 28	Thanksgiving Holiday
Thursday, December 16 <i>through</i>	
Tuesday, December 22	Reading and Examination period
Wednesday, December 23 <i>through</i>	
Sunday, January 30	Winter Recess (an academic program available January 3-28)

SECOND TERM

Monday, January 31	Classes begin
Monday, February 21	Washington's Birthday (<i>Holiday</i>)
Thursday, March 30 <i>through</i>	
Sunday, April 9	Spring Vacation
Friday, May 19 <i>through</i>	
Tuesday, May 23	Reading and Examination period
Sunday, May 28	Commencement Day

The College reserves the right to make changes in the regulations and courses announced in this catalog.

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